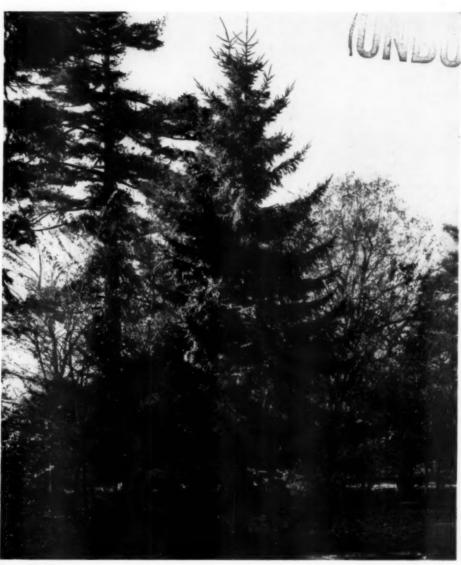
# AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

FEBRUARY 15, 1955



Picea Glehni

SEEDS TREE—SHRUB—PERENNIAL FLOWER—GRASS—VEGETABLE

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway, New York 12, N. Y.

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## FOREST TREE SEEDLINGS • SHADE TREES • FLOWERING CRAB APPLES

SUPERIOR QUALITY

NORTHERN-GROWN

COMBINATION CARS—We will have combination cars to most EASTERN POINTS in late February and March.

This is only a partial listing of our wide selection of general nursery stock. See our Spring Wholesale List for more complete variety selection.

TERMS—Regular. If interested in quantity lots write for special prices.

FOREST TREE SEEDLINGS		FOREST TREE SEEDLINGS-	FLOWERING CRAB APPLES-Cont.				
	Per 1000	Per 100	Per 100 Per 1000				
APRICOT		LOCUST, THORNLESS HONEY		Red Silver			
2 to 3 ft \$ 7.00	\$ 60.00	3 to 4 ft\$ 8.00	\$ 70.00				
18 to 24 ins 5.00	40.00	2 to 3 ft 5.00	45.00	3 to 4 ft\$ 80.00			
ASH, GREEN		18 to 24 ins 3.50	30.00	4 to 5 ft			
	35.00	12 to 18 ins 2.40	20.00	5 to 6 ft			
2 to 3 ft	35.00 25.00	6 to 12 ins 1.70	14.00	6 to 8 ft			
18 to 24 ins	16.00	3/16-in, cal, and up		0.10.0 11.11.11.11.11.11.11.11.11.11.11.11.11.			
6 to 12 ins 1.20	10.00	understock 2.00	18.00				
		MAPLE, SILVER		SHADE AND ORNAMENTAL	TREES		
CARAGANA ARBORESCENS		2 to 3 ft 5.50	50.00	ELM, American			
3 to 4 ft 8.00	75.00	18 to 24 ins 4.00	35.00	ELM, American			
2 to 3 ft 5.50	50.00	6 to 12 ins 1.70	14.00	4 to 5 ft., T \$ 40.00			
18 to 24 ins 4.00	35.00	OLIVE, RUSSIAN		5 to 6 ft., T 65.00			
12 to 18 ins	25.00 15.00	3 to 4 ft 8.00	75.00	6 to 8 ft., T 100.00			
6 to 12 ins 2.00	13.00	2 to 3 ft 6.00	55.00				
CHERRY, WILD BLACK		18 to 24 ins 4.50	40.00	8 to 10 ft., T 150.00			
2 to 3 ft 5.50	50.00	12 to 18 ins 3.00	25.00	11/4 to 11/2-in. cal., T 200.00			
18 to 24 ins 4.00	35.00	6 to 12 ins 2.00	18.00				
12 to 18 ins 2.90	25.00	OSAGE ORANGE		ELM, Chinese			
6 to 12 ins 2.00	18.00	18 to 24 ins	20.00				
ELM, AMERICAN		12 to 18 ins 1.80	15.00	4 to 5 ft., T 35.00			
5 to 6 ft 12.00		6 to 12 ins 1.20	10.00	5 to 6 ft., T 60.00			
4 to 5 ft 7.50	65.00	FLOWEDING ODER ADD		6 to 8 ft., T 90.00			
3 to 4 ft 4.50	40.00	FLOWERING CRAB APP	LES	8 to 10 ft., T 125.00			
2 to 3 ft	30.00	Bechtel's, Klehm's Improved					
18 to 24 ins 2.60	22.00	4 to 5 ft		FILA AA II			
12 to 18 ins 1.90	16.00	5 to 6 ft		ELM, Moline			
6 to 12 ins 1.20	10.00			4 to 5 ft., T 75.00			
ELM, CHINESE		5 to 6 ft		5 to 6 ft., T 100.00			
5 to 6 ft	160.00	6 to 8 ft		6 to 8 ft., T 135.00			
4 to 5 ft	100.00		+ × + +				
3 to 4 ft 7.50	65.00	Eley, Shrub Form		8 to 10 ft., T 200.00			
2 to 3 ft 4.50	40.00	3 to 4 ft					
18 to 24 ins 2.90	25.00	4 to 5 ft		MAPLE, Norway			
12 to 18 ins., 2.10	18.00		1.5	2 1 2 1 1 2000			
6 to 12 ins 1.20	10.00	Floribunda purpurea		2 to 3 ft., whips 20.00			
HONEYSUCKLE		4 to 5 ft		3 to 4 ft., whips 30.00			
	100.00	5 to 6 ft		4 to 5 ft., whips 50.00	\$450.00		
18 to 24 ins	50.00	Hopa		5 to 6 ft., whips 75.00	700.00		
9 to 12 ins 5.60 6 to 9 ins 3.50	30.00	5 to 6 ft		6 to 7 ft., whips 100.00	900.00		
0 10 7 1115 3.30	30.00	6 to 8 ft		7 to 8 ft., whips 135.00			
LOCUST, BLACK		Hopa, Shrub Form		8 to 9 ft., whips 160.00			
5 to 6 ft 8.00	75.00	4 to 5 ft		8 10 7 11., whips 180.00			
4 to 5 ft 6.50	60.00	5 to 6 ft					
3 to 4 ft 4.50	40.00	Mount Arbor		MAPLE, Schwedler			
2 to 3 ft 3.20	28.00	4 to 5 ft					
18 to 24 ins 2.40	20.00	5 to 6 ft		5 to 6 ft., whips 135.00			
12 to 18 ins	14.00	6 to 8 ft		6 to 7 ft., whips 175.00			
6 to 12 ins 1.00	9.00	Niedzwetskyana, Red Vein		7 to 8 ft., whips 200.00			
		3 to 4 ft 80.00		8 to 10 ft., branched. 375.00			
-		4 to 5 ft		11/4 to 11/2-in. cal 450.00			
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Mount Arbor Nurseries

ESTABLISHED 1875

SHENANDOAH IOWA

# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CI, No. 4

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Forms for the March 1 issue will close Friday, February 11.

Forms for the March 15 issue will close Friday, February 25.

Mail copy to arrive at Chicago by these dates — no later!

# They're Ready for Shipment!





Tiffany

- 484 - 646 - 617 - 617 - 617 - 617 - 618

hybrid tea, All-America Rose Selection award winner for 1955. Named to honor Tiffany & Co., New York, known the world over for unexcelled quality.

### BARE-ROOT ROSES FROM HOWARDS OF HEMET

We are now digging, grading and shipping previously booked orders to our regular customers. Much to our surprise, earlier field growing estimates of No. 1 grades were exceptionally conservative. We are happy to say we now have No. 1 grade Tiffany, Lilibet and other popular patented and nonpatented varieties available, as well as an excellent assortment of No. 1½ and No. 2 grade rosebushes.

Tiffany is beautiful from bud through full bloom! Golden-yellow based buds shading to a deep pink make a striking contrast to the dark green foliage. Growth habit is upright, vigorous and exceptionally resistant to disease and garden hazards. Blooms are giant size and especially fragrant and long lasting. It is not uncommon to cut stems 20 to 24 inches long. No wonder Tiffany nearly topped the highest A. A. R. S. score on record!

#### CASH IN WITH NATIONALLY ADVERTISED AND PUBLICIZED TIFFANY!

Full-color advertising and publicity in leading garden and home magazines, newspapers, radio and TV are creating a tremendous demand for the rose that garden editors are saying will be the most popular rose of the decade. Make sure you have a good stock on hand . . . there's going to be a tremendous demand!

Send us a list of your requirements for a quotation. Write today while we can still flll your order with No. 1 grades.

TIFFANY AND LILIBET ARE HOWARDS OF HEMET ORIGINATIONS



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#### The Mirror of the Trade

# AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

#### Editorial

#### CYCLES WITHIN CYCLES

In following the recurrent predictions and observations of professional economists over a period of years for the purpose of transferring pertinent comments to readers of this page, esteem for Sumner Slichter has constantly increased. So special interest seems merited by his current statements in the Harvard Business Review that the business trend in this country is toward greater stability, because the old cycle is being broken up and numerous independent lesser business cycles now tend to offset one another.

He mentioned as a remarkable fact about the recent recession was the way in which some parts of this country's economy resisted the recession and other parts seemed to have been unaffected by it. The country experienced, not a general decline in business, but a decline in some parts of it, accompanied by stability in other parts and by actual expansion in still others.

Among the changes tending to break up the business cycle is the change in financing of building projects. The replacement of short-term mortgages with long-term amortizable mortgages (some of them guaranteed or insured by the government) should prevent the accidental concentration of a large volume of maturities in years of depression and will prevent future recessions from producing large-scale distress selling of real estate.

The policy of the national government in offsetting a drop in defense spending by projects for domestic development is another factor tending toward stability, as is the continuance of the volume of unfilled orders in the durable-goods industry as a matter of national policy. Other influences are unemployment compensation, pension payments and farm price supports, which tend to check declines in personal income. Others are the current great gain in liquidity of business concerns, the rise of technological research and the more thorough planning of the future development of enterprises.

After the years of prosperity which have followed the high wartime levels of employment, grayheaded nurserymen begin to think of the pendulum reversing its direction. Many of them still have bitter recollections of the depression of 20 years ago. There is conservative tendency in such individuals to delay expansion and promotion with an apprehensive view of the future. If the view of Professor Slichter is correct, the status of the trend in one's own industry is more important than the national picture embracing diverse trends in different fields.

#### PROPOSED POSTAGE RAISES

While the federal government is taking actions presumed to maintain industrial activity at a high level and to promote the general prosperity of the country, the reverse effect is likely to be seen if postage rate increases are made by Congress in accordance with the request of Postmaster General Summerfield.

The rate increases would affect all classes of mail except fourth class, or parcel post, on which an increase of 35 per cent was obtained in 1953 through the authority of the interstate commerce commission.

Air mail would be increased from 6 to 7 cents on the first ounce, and the regular letter rate, local and out-of-town, would be increased from 3 to 4 cents for the first ounce only, additional ounces remaining at 3 cents.

Second-class mail, affecting principally newspapers and magazines, would receive an increase of 15 per cent annually for two successive years, on top of three annual increases of 10 per cent.

Still heavier is the effect on thirdclass mail, consisting of circulars, advertising matter and small merchandise packages, which would be increased 28 per cent.

Whether the \$332,000,000 a year which these increases are expected to bring into the federal till will be realized, the increases of 25 per cent and 28 per cent, respectively, on first-class and third-class mail are certain to have effect upon direct-mail advertising and business correspondence. The increase will be felt most by small businessmen, whose sales and advertising are confined to a limited area and, therefore, use mail service for advertising more than the big corporations.

The excessive increase in rates of postage on fourth-class mail, or parcel post, has already created changes in the methods used by firms in this field to ship small orders, and it may be questioned whether the income to the Post Office Department after the 1953 increase yielded anything like the revenue expected.

When the maintenance of retail sales is so important in this country to keep the wheels of industry rolling at the current high rate, a damper on advertising by mail seems a doubtful move.

#### PROTECT PUBLIC

Public alarm at the spread of the Dutch elm disease in the midwest has caused homeowners to give more attention to the spraying, pruning and feeding of their street and lawn trees, to the benefit of their properties and their communities, as well as arborists.

They will all three be losers if no deterrent is found for the persons whose ignorance of tree care is only exceeded by their lack of responsibility. These shysters meet a ready reception from the unwary homeowners who have read of the diseases that threaten their elms and other shade trees. After useless work and possible mutilation has been done and the homeowner has paid an excessive bill does he investigate—too late.

Protection from such shysters will probably be sought in the form of legislation to license commercial arborists, a procedure that has been effective in some states, but less so in others.

But much time will be required to obtain passage of a bill by a state legislature, and more time will be consumed in setting up the machinery for its enforcement. Meantime, the concern about their trees is causing the gullible part of the public to be victimized.

Most newspapers, to their credit, have appended to their articles on the Dutch elm disease a warning that only reliable practicing arborists should be employed. That warning is to the interest of the newspaper's readers and the community, and where it has not been published, the local arborist or nurseryman should appeal to the editor for such action. Better business bureaus are also instrumental in giving public warning. And it is quite opportune for the individual arborist to emphasize this theme in his local advertising, however done.

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### Plan A. A. N. Convention

### **Canadian Association Meets**

The scenic surroundings of Niagara Falls, Ont., served as the background for the 32nd annual convention of the Canadian Association of Nurserymen. Held at the Sheraton-Brock hotel, January 19 to 21, the convention attracted 130 nurserymen from the United States and Canada. It was agreed by the members that this was the most successful convention in the association's history. Important business was transacted, and instructive talks on propagation and on selling were heard, as summarized in this report.

In an election of officers J. V. Stensson, Sheridan Nurseries, Ltd., Toronto, Ont., was named president; A. B. Luke, Luke Bros. Nurseries, Ltd., Hudson, Que., first vice-president; W. B. Wellington, Stone & Wellington, Ltd., Toronto, Ont., second vice-president, and J. R. Burns, Ottawa, Ont., secretary-treasurer.

Directors are J. H. Eddie, H. M. Eddie & Sons, Ltd., Vancouver, B. C.; N. J. Scott, Brookdale-Kingsway, Ltd., Bowmanville, Ont.; J. E. Shuttleworth, Little Tree Farm, London, Ont.; W. H. Perron, W. H. Perron & Co., Montreal, Quc., and G. F. Downham, H. C. Downham Co., Strathroy, Ont.

Elected an honorary president was Harry Endean, Endean Nurseries, Ltd., Richmond Hill, Ont., chairman of arrangements for the American Association of Nurserymen convention next July. Maj. John Connon, The Nurseries, Waterdown, Ont., continues as honorary president.

Honored at the annual banquet Friday evening were the past and honorary presidents of the Canadian association. President Stensson presented gavels to J. A. Aitken, Ottawa, Ont.; Major Connon; Spencer McConnell, McConnell Nursery Co., Port Burwell; Ont., and T. A. Torgeson, Prairie Nurseries, Ltd., Estevan, Sask.

Of special interest was the announcement by Dr. J. S. Shoemaker, head of the horticulture division, Ontario Agriculture College, Guelph, that Murray Peart had been named as a member of the staff to devote his entire time to nurserymen's problems. Mr. Peart is a recent graduate of the college, and while his nursery experience is limited, it was felt that he would prove most capable.

In a closed business meeting, Thursday morning, January 20, it was decided to abandon the advertising program which so enthusiastically had been inaugurated at last year's convention. While some of the participating members voiced approval of the campaign, it was generally felt that not enough of the members had participated to make it a success. It was concluded that secretarial help for Mr. Burns, which could assist him in disseminating news material to Canadian newspapers and magazines, would prove more beneficial and less expensive.

A resolution was passed raising

the minimum dues of the association from \$15 to \$25, with the rate being \$1 on each \$1,000 of sales up to \$100,000 and 50 cents per \$1,000 on sales from \$100,000 to \$500,000. Over this figure the rate will be 25 cents per \$1,000 of sales. The membership report showed a total membership of 171.

A past presidents' council was formed to avail the association of the knowledge of these members. Action was taken to set up policy and procedure to deal with unfair trade practices. A telegram of congratulations was sent to Malcolm D. Davis, Dominion horticulturist, Ottawa, Ont., who had just retired after 40 active years in this position.

In his secretary-treasurer's report, Mr. Burns explained that in Canada there is a national council of horticulture comprised of representatives of Canada-wide and provincial trade groups and government bodies. It is known as the Canadian Horticultural Council. Having its offices at Ottawa, Ont., it provides a continuing organization for the coordination of the various needs of the industry and acts as a clearinghouse between the Dominion government and commercial horticulture generally. Twenty-five voting delegates meet once a year, with the majority of votes held by grower interest. The Canadian Association of Nurserymen has one vote.

Mr. Burns reviewed some of the activities of the association during



Officers, directors and committee chairmen of the Canadian Association of Nurserymen: (Seated, left to right) T. A. Torgeson, Estevan, Sask.; Spencer McConnell, Port Burwell, Ont.; H. Endean, Richmond Hill, Ont.; J. V. Stensson, Toronto, Ont.; A. B. Luke, Hudson, Que.; W. B. Wellington, Toronto, Ont. (Standing, left to right) J. R. Burns, Ottawa, Ont.; Len Cullen, York Mills, Ont.; J. McDonald, Lacombe, Alta.; William Haist, Toronto, Ont.; Fergus Brady, Strathroy, Ont.; J. E. Shuttleworth, London, Ont.; K. F. Stensson, Toronto, Ont.; S. C. Wellington, Toronto, Ont.; N. J. Scott, Bowmanville, Ont.; Donald McConnell, Port Burwell, Ont.; Arthur Fitzsimmons, Hamilton, Ont.

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Canadian A. A. N. convention executive committee: (Seated, left to right) Mrs. Harry Endean, Harry Endean, J. V. Stensson; (standing, left to right) Spencer McConnell, K. F. Stensson, R. P. White.

the past year, including the advertising and publicity, insurance program, cooperative buying and the seventh annual short course held last August. He made a recommendation

[Continued on page 46]

#### A. A. N. CONVENTION PLANS

Prior to the 32nd annual convention of the Canadian Association of Nurserymen, at Niagara Falls, Ont., the convention committee of the American Association of Nurserymen met to formulate plans for the forthcoming national convention at Toronto, Ont., July 10 to 14.

A. A. N. Executive Secretary Richard P. White, Washington, D. C., reported that 470 persons had already registered for the convention, 190 of them being women and 45 children. Dr. White confidently predicted that the 1,000 mark would be reached by July. Approximately 150 rooms remain unreserved in the Royal York, the headquarters hotel, he announced, while only 12 of the 50 exhibit booths are not taken.

Attending the meeting January 19 at the Sheraton-Brock hotel were the following officers: Harry Endean, Endean Nurseries, Ltd., Richmond Hill, Ont., and Spencer McConnell, McConnell Nursery Co., Port Burwell, Ont., cochairmen; J. V. Stensson, Sheridan Nurseries, Ltd., Toronto, Ont., vice-chairman; Frank Fidler, H. C. Downham Nursery Co., Strathroy, Ont., treasurer.

Committee chairmen attending were Mrs. Harry Endean, ladies' entertainment; K. F. Stensson, Sheridan Nurscries, Ltd., Toronto, Ont., registration; Walter Bowley, H. C. Downham Nursery Co., Abbotsford, Que., juniors' entertainment; William Haist, Stone & Wellington, Ltd., Toronto, Ont., entertainment; W. B. Wellington, Stone & Wellington, Ltd., exhibits; Len Cullen, Weale & Cullen, York Mills, Ont., transportation, and C. M. Barron, Barron's, Fonthill, Ont., decorations.

One of the main convention activities planned for July 12 will be a series of eight round-table discussions scheduled in separate rooms. Lloyd Platt, Platt's Landscape Nursery, Davenport, Ia., secretary of the National Landscape Nursery-

men's Association, and Dr. White will conduct this phase of the convention program.

Entertainment will play an important part in the scheduled activities. Sunday evening, July 10, a concert is planned at the Royal York hotel; Monday evening, July 11, a cocktail party, buffet dinner and dancing are scheduled at the Brant Inn, Burlington, Ont.; Tuesday evening, the Canadian Association of Nurserymen will serve as host at a special Canadian night; convention activities will be concluded with the annual banquet on Wednesday night.

Ladies attending the convention will find a full schedule of activities, starting with a reception tea on the roof garden of the hotel, Sunday afternoon, July 10. The annual meeting of the ladies' auxiliary of the A. A. N. will be held at the Guild of All Arts, a famous Toronto spot, where jewelry, chinaware and other Canadian products are made. Wednesday the ladies will have breakfast at Eaton's department store, after which they will listen to a talk on Irish linens and chinaware.

Children will be well entertained with a 2-hour program of getacquainted games and vaudeville acts on Sunday afternoon, July 10. Monday morning the youngsters will have their own movie show, including two hours of nature, comedy and travel tour films. The next morning the younger set will go on a tour, visiting Casa Loma, an old Canadian castle. That afternoon a visit will be made to the de Havilland aircraft factory to see the jet airplanes. Wednesday morning the children will have a picnic lunch at Sunnyside pool.



Presentation of gavels to past and honorary presidents of the Canadian Association of Nurserymen: J. A. Aitken, Maj. John Connon, J. V. Stensson, Spencer McConnell, T. A. Torgeson.

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# Tennessee Celebrates 50th Anniversary

The convention committees and officers of the Tennessee State Nurserymen's Association went all out to make their golden anniversary meeting one that will long be remembered. To commemorate the 50 years of service to the nursery industry, the 3-day convention was climaxed by planting and presenting a 20-foot magnolia tree to the governor of Tennessee.

Held at the Andrew Jackson hotel, Nashville, January 30 to February 1, the gathering attracted nearly 150 nurserymen and their wives from Tennessee and surrounding states. Highlight of the meeting was a series of round-table discussions on garden store selling, propagation, fertilization and irrigation. A talk on advertising also stimulated much interest

Elected to office were the following: President, Archie Cultra, Morning Star Nursery, Rives; vice-president, Tom Faulkner, Faulkner's Mountain View Nursery, Maryville, and secretary-treasurer, Clark Boyd, Boyd Nursery Co., McMinnville.

Chosen for the executive committee were the following: L. C. Fletcher, Tennessee Nursery Co., Cleveland; Buck Allison, Highland Rim Nursery, White Bluff, and Leon Hawkersmith, Riverside Nursery, Winchester.

Opening the convention was an elaborate social hour on Sunday evening, with nurserymen from De Kalb, Warren and Franklin counties serving as hosts. Adding to the merriment of the evening, Ronald Hickerson, Ewing & Hickerson Nursery, Nashville, was dressed as a redwhiskered hillbilly complete with a jug of corn liquor.

An added feature for the anniversary celebration was the garden plot arranged in the main lobby of the hotel. Included were over 100 balled and burlapped evergreens and pots of blooming azaleas and daffodils. Garden statuary and wrought-iron tables and chairs completed the set-

#### **Business Meeting**

President Hubert Nicholson, Commercial Nursery Co., Decherd, called the convention to order on the morning of January 31. An invocation was given by T. N. Nicholson, Sr., after which the secretary-treasurer, Tom Faulkner, conducted a roll call of members. In his report, Mr. Faulkner stated that the treasury showed \$2,677 before the convention. The membership roster included 75

active members, 21 associate and 10 affiliate members.

In a short address the president announced that the Nashville Tennessean, the morning daily paper, would publish a story about the history of the Tennessee nursery industry, including information on the "Plant Tennessee" program, in the Sunday supplement on February 27. Mr. Nicholson reviewed the meeting called by the Tennessee farm bureau in which the association was permitted to voice its opinions on how the University of Tennessee could better serve the nursery industry in the

#### TENNESSEE PRESIDENT



Presiding at the 50th anniversary meeting of the Tennessee Nurserymen's Association, Hubert Nicholson is the fourth of his family to serve as president, the others being his father, T. N. Nicholson, Sr.; his uncle, Harry Nicholson, and his brother, T. N. Nicholson, Jr. He was born at Decherd, where his father has been in the nursery business about 60 years, 53 in partnership with his brother, Harry, whose interest at his death was purchased by Hubert. Hubert worked in the nursery from the time he was 6 years old, with the exception of four years majoring in horti-culture at the University of Tennessee, four and one-half years service in World War II, in the China-Burma-India theater, and one and one-half years in Korea as major, assistant G-3, 45th Infantry division. In the intervals between college and his terms of military service he worked for other southern nurseries, becoming his father's partner in November, 1952, upon completion of his second release from service. Their firm, the Commercial Nursery Co., primarily produces fruit trees, but also grows ornamental trees, shrubs and evergreens, operating on 290 acres. Some farming is done, and a herd of black Angus cattle is the pride of the senior Nicholson, who is almost 80 years of age and still puts in six days' work a week.

state. He related that much progress had been made in recent months toward inaugurating the "Plant Tennessee" program. A meeting was held with the governor, who gave his stamp of approval to the idea, and in the next few months an invitational meeting with all interested groups will be held. The governor, he said, is looking for a program outline.

At a final business session on Tuesday morning, a motion was passed that the officers of the association combine to form a committee to push the "Plant Tennessee" program. It was also decided at that time to leave the selection of next year's convention site to the executive committee. Ten new members were admitted to the association.

#### **Advertising Problems**

"What a Good Advertising Program Can Do for You Nurserymen" was the title of a talk delivered by Charles Coggins, Coggins Advertising Agency, Nashville. Nurserymen have a product of which they can be proud, he affirmed. People inherently like trees and shrubs, for last year over 2,500,000 people visited the Smoky Mountain national park, viewing the 150 species of trees and 1,500 varieties of flowers. Trees and shrubs offer beauty, peace and quiet. People want these materials, but have to be sold on them.

There is no magic formula for advertising, he said, for each group has different problems. The retail nurseryman, wholesaler, landscape contractor or any other member of the industry each has separate problems.

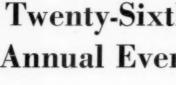
If a joint advertising program is to be considered, the first problem is fund raising and that is most difficult. The usual pattern is that out of 100 members of an association 10 or 15 carry the financial burden, 15 or 20 more contribute a small amount and usually are most critical of the program. To make all members interested, the campaign would have to be state-wide.

In Tennessee, he said, there are 158 newspapers, 128 weeklies and 30 dailies. The combined rate of all papers for a 1-inch advertisement would be \$130.59. For 52 times the cost would be \$6,791. Also in Tennessee there are 68 radio stations, 46 night and 22 daily. A 15-minute program on all of the night stations would cost \$1,847, and if a program was used each week of the year the cost would be \$96,049.

[Continued on page 74]

### Ohio Short Course

# **Arborists' Day Opens Twenty-Sixth Annual Event**





The 26th annual short course for arborists, landscape gardeners and nurserymen, held January 17 to 19 at the Neil House at Columbus, Ohio, was attended by more than 300 persons from 17 different states. Sponsored jointly by the department of horticulture of Ohio State University, the Ohio chapter of the National Shade Tree Conference and the Ohio Nurserymen's Association, the short course was opened by a welcome from Dr. L. C. Chadwick, head of the division of floriculture and ornamental horticulture, Ohio State University.

#### Arborists' Use of Herbicides

Chemistry in arboriculture was discussed extensively during the arborists' day program, January 17. The first topic of the morning was "The Use of Herbicides by the Arborist." J. Melvin Easterday, landscape contractor, Canton, Ohio, talked on the "Control of Lawn Weeds," and Homer L. Jacobs, Davey Tree Expert Co., Kent, Ohio, on "Brush Control."

Mr. Easterday pointed out that the application of herbicides had increased rapidly in the last 10 years and consequently the use of spray equipment is no longer just seasonal. He cautioned that the operator of any spray equipment should be absolutely familiar with all the characteristics of the herbicide which he is using; namely, its potency and volatility; its effect on weeds that are to

be killed, other vegetation, soil, paint on buildings, and spray equipment. The operator should also know the most effective rate of application of the herbicide, its compatibility with other horticultural chemicals and also the best time of the year to apply the herbicide. Before putting any new herbicide into use, trial applications are particularly essential. An instance was described in which a sprayer, filled with 2,4-D herbicide spray solution, was parked within a few feet of a dogwood tree while the spray crew was eating lunch. Within six weeks the tree had died from the effects of the 2,4-D vapors that had been given off from the spray solu-

For applying 2,4-D and other horticultural chemicals to lawn and inaccessible areas, Mr. Easterday stat-

By P. A. Barker

ed that he had found that a 25 to 50-gallon hydraulic sprayer was most satisfactory. Its small cost and ease of handling make it ideal for a great variety of jobs. In addition to being used for applying herbicides, it may also be used for spraying liquid fertilizers or insecticides to lawn areas either separately or as mixtures of any of these three materials.

The speaker suggested that, as a general weed killer, 2,4-D can be applied any time during the growing season, since there are many weeds that can be killed at any time. Of the difficult-to-kill weeds, knotweed should be sprayed in May or June, while dandelions seem to be killed best by spraying them in September or October. Normally adequate control can be obtained where the herbi-

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[Continued on page 121.]



Vincent K. Bailey, Laddie J. Mitiska and Lewis Lipp in propagation round table, on Nurserymen's Day, at Ohio State University.

Other Short Course Reports: OHIO NURSERYMEN'S DAY **Page 100** OHIO LANDSCAPE DAY **Page 112** 

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Officers and executive committee members of Ohio Nurserymen's Association (left to right): David Metzger, Harley Bratton, James Siebenthaler, George Gens, Howard Kyle, Zaphar P. Warner and Laddie J. Mitiska.

# O. N.'A. Hears Talks on Varied Topics

By Kenneth W. Reisch

Over 200 persons attended the 48th annual convention of the Ohio Nurserymen's Association, January 20 and 21, at the Neil House, Columbus. The meetings, along with the 23rd annual "Ye Olde Tyme Dinner," proved to be a great success.

Officers elected for 1955 were: President, Howard Kyle, Spring Hill Nurseries, Tipp City; vice-president, James Siebenthaler, Siebenthaler Co., Dayton, and Roger Aukeman, Hollandia Gardens, South Vienna, secretary-treasurer. Elected to the executive committee for two years were Zophar P. Warner, Warner Nursery, Willoughby; Laddie J. Mitiska, Amherst, and Harley G. Bratton, Slemmons Gardens, Columbus.

An enjoyable gathering of old and new friends took place at the hospitality party held Wednesday evening. The film, "Rosarama," which included scenes from the Columbus park of roses, was a highlight of the evening.

Thursday morning, January 20, President George F. Gens, North Ridge Nursery, Norwalk, called the convention to order and introduced G. Brett Slemmons, Slemmons Gardens, Worthington. Mr. Slemmons gave a message in memoriam for J. Howard Burton, Hilltop Nurseries, Casstown, a past president of the association, and Mrs. P. C. Vandervoort, Wilmington, wife of one of the founders of the association.

The first speaker of the morning, Prof. Earl A. McIntyre, department of journalism, Michigan State College, discussed the subject of advertising for the nursery business.

Professor McIntyre stressed the fact that the nursery industry must advertise in order to progress. Advertising should be considered as one of the tools of merchandising and, instead of an expense, should be looked on as an investment. He said the only type of effective advertising is consistent advertising, which builds business by repetition. In conjunction with this consistent advertising the nurseryman must have the right merchandise, at the right time, in the right place and at the right price. This can be achieved by use of a unit control system, which consists of sales records indicating when, how many and at what price units are sold and which will indicate peak periods, etc.

Advertising should not be a hitand-miss proposition, but should be well planned, with the costs based on a definite percentage of the annual gross sales. Professor McIntyre indicated that the advertising costs range from 1 to 4.5 per cent. The higher percentage would be used in an area of greater competition. The plan should be set up on a monthly or yearly basis, with greater stress placed on the peak periods.

As times change, so change people's buying habits. Because of this,

a nurseryman should conduct research in his neighborhood and among his customers. Professor Mc-Intyre noted that results of research have indicated that there is more money to spend, there are more people over 65 with money to spend, there are more married women buying today with the average age of 38 and women are more factual and logical in their buying than men. It is up to the nurseryman, through effective advertising, to convince buying sources such as these of the value of his products and services. Consumer education concerning plants, landscaping and other services should also be carried on by the nurseryman.

Professor McIntyre pointed out that effective advertising was just one of the steps in effective merchandising and that a man must be a good salesman to obtain full value from his advertising. Displays should be used to fullest advantage and should sell an idea, not a product, such as using combined displays of plants, specific pesticides and fertilizers, and any other items closely related to the plants. The importance of color in displays was stressed and illustrations were given which showed that psychologically color can irritate, sooth, cool, warm, attract or repel a customer. Effective use of irritating colors in a cafeteria created the desired rapid turnover

[Continued on page 36]

### **Indiana Arborists Meet**

By Robert C. Simpson and Donald Schuder

The annual 2-day meeting of the Indiana Arborists Association opened at Lafayette, January 20. Dr. N. K. Ellis, department of horticulture, welcomed the members to Purdue University. Donald Schuder, Indiana experiment station, gave an illustrated talk on the insect problems of the nurserymen and arborists.

Dr. J. C. Carter, Illinois Natural History Survey, Urbana, Ill., discussed the six worst disease problems of the arborists in Indiana. He eliminated Dutch elm disease, phloem necrosis and oak wilt, since these are fatal diseases with no cure. He made three groupings: (1) Vascular, wet wood bacteria and verticillium wilt; (2) stem blight and cytospora canker; (3) leaf, anthracnose and scorch.

#### Elm Diseases

Elm diseases and chemotherapy were discussed by Dr. R. W. Swingle, pathologist, U. S. D. A., Worthington, O. Confining his remarks to Dutch elm disease and phloem necrosis, Dr. Swingle said a high degree of disease control has been obtained when spray recommendations have been carefully followed. Careful timing and thorough coverage are essential. Additional problems have arisen, however, following continued applications of DDT. A buildup of mites and aphis is to be expected. requiring additional sprays or modified formulations. Heavy buildup of scale populations may also follow on

sprayed trees or in adjoining areas. For Dutch elm disease alone the

prefoliar spray is of most importance and should be made before appearance of the elm foliage or flowers, with thorough coverage of all bark and twig surfaces. Dendrol 4 per cent with 2 per cent DDT for hydraulic sprayers, or 12 per cent Dendrol and 12 per cent DDT for mist blowers, was recommended.

For phloem necrosis and where mites are a problem, later foliar sprays in June and mid-August seem essential. Most reported failures in control he attributed to poor coverage or insufficient gallonage. An average 50-foot elm, with good spraying conditions, should receive two to three gallons of concentrate, or 20 to 30 gallons of spray from hydraulic equipment. The dormant or prefoliar spray may be difficult to apply properly in the windy weather prevalent in March and early April. Late fall or winter applications were recommended by Dr. Swingle.

Chemotherapy is the use of chemicals to be introduced into the plant system for distribution throughout the plant. This field, said Dr. Swingle, is a promising one in this and other countries. There have been advances from the experimental point of view, but at the present none has proved of practical value for control of the elm dis-

A more immediately promising approach, according to Dr. Swingle,

has been the breeding and selection of seedlings for resistance to both Dutch elm disease and phloem nec. rosis. Until recently work has been confined largely to the vase-shaped American elms. High resistance to each of these diseases has been secured, but not to both diseases. Other species, however, offer great promise. The Christine Buisman elm. a European selection of Ulmus carpinifolia, is highly resistant to both diseases, and a limited supply is now available from commercial nurseries. This selection is not hardy in parts of northern Iowa and Minnesota and is a favorite of the elm leaf beetle. It should be used only in diversified plantings. Selected seedlings of Ulmus serotina vegeta show promise. In addition, approximately 75,000 seedlings are now on trial, including Ulmus pumila, U. carpinfolia, U. glabra, U. laevis and U. japonica. From these should come some valuable material.

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#### Panel on Tree Insects

During the panel on tree insects and diseases the following points were brought out. There has been little evidence of build-up of resistance to DDT sprays in the case of elm bark beetles. Many cases of reported ineffectiveness of sprays for prevention of Dutch elm disease have been due to insufficient buildup of spray residue on the twigs and bark. A properly applied spray has a long residual effect.

Some of the new systemic treatments are proving very effective against aphis and mites.

The Augustine ascending elm has been tested and found susceptible to Dutch elm disease.

Recently newspapers have reported amazing results from use of salt for treatment of trees infected with Dutch elm disease and oak wilt. Scientific tests are being set up to prove or disprove these claims.

To prevent spread of elm diseases through natural root grafts, trenching has been effective. Such trenches should be at least 18 inches deep. preferably nearer the tree to be protected. Most elm roots are in the top 18 inches of the soil.

Oak wilt has been spread experimentally by use of squirrels and by blowing across the wilt mats onto wounded healthy tissue. It has also been spread by insects feeding on the

[Continued on page 68]



Staff members of Purdue University and speakers at Indiana Nurserymen's Association convention: (Seated) Prof. Roy Hull, Dr. Donald P. Watson, Dr. Kent Ellis. (Standing) P. T. Ulman, H. W. Gilbert, Dr. W. K. Leslie.

# Indiana Association Meets at Purdue

By Robert C. Simpson

Officers elected by the Indiana Association of Nurserymen for 1955 are: President, Troy Bunch, J. C. Bunch & Son Nurseries, Terre Haute; vice-president, Henry Schnitzius, New Augusta Nursery, New Augusta. New executive committee members for a 3-year term are Floyd Bass, Jr., Bass Nursery, New Augusta, and Argel Pion, Pion Landscape Co., Fort Wayne.

Selection of Donald L. Schuder, entomology department, Indiana agricultural experiment station, as the executive secretary for the association was announced. Mr. Schuder will assume duties of the former corresponding and recording secretaries as well as edit the Indiana Nursery News, effective sometime in March.

#### **Opening Session**

Opening the annual winter conference of the Indiana association, at Purdue University, January 18, Prof. N. K. Ellis, head of the horticulture department, gave a welcoming address and outlined plans of his department of interest to nurserymen. Just outside the meeting place was the beginning of a large building to be the Union-Music Hall Annex. Here will be adequate facilities for several concurrent conferences, with ample exhibition space for even heavy equipment. Dr. Ellis explained that this tremendous building is for adult education or for what he preferred to call "continuing education." It is being built without expense to the taxpayers of Indiana and is a bonded project which will be selfliquidating.

Dr. Ellis stated that he had received a request from Dr. Donald P. Watson, of Michigan State College, to meet with other representatives of the eleven states in the northcentral region (Ohio to the Dakotas) to consider a project on marketing ornamental horticultural crops. Dr. Ellis asked that a committee representative of the nurserymen advise him before close of the conference of any problem which he should take before the conference, one that would concern all eleven states.

The nurserymen were invited to inspect the plastic greenhouse being constructed by the horticultural department for study of problems in operation of this type of structure, which makes feasible the removal of the plastic cover during the summer. He asked for an expression of extent

of interest on the part of the nurserymen in this project.

Prof. J. A. McClintock traced the origin and development of the nursery industry from the time of the Garden of Eden.

Dr. J. P. Mahlstede, Iowa State College, discussed the development of packaging nursery stock, including the various materials past and present. Polyethylene appears to be the answer to many problems arising from the need for reduced weight, particularly for the mail-order trade. Much of this work is still in the experimental stage, and revolutionary changes are expected within a short time. The talk was a summary of the work in this field to date.

#### **Business Meeting**

A preliminary business meeting was held in order to bring up questions for consideration and later decision. Among these was the question of a paid permanent executive secretary, combining the duties of three present offices.

A bill is coming up before the state legislature concerning much needed landscaping of the state capitol building at Indianapolis. Indiana nurserymen are opposed to expenditure of state funds for re-landscaping unless and until provision is made for

adequate and continuing maintenance by qualified persons or agency. Indiana has an impressive capitol building, but the present grounds add little of beauty.

The proper methods of differentiating between retail and contract sales were discussed, as a difference is involved of between one-half per cent and one-quarter per cent in state gross income tax for nurserymen doing planting and landscape work

Representatives of exhibiting firms were introduced, and members were urged to visit the exhibition room. For the first time in many years requests exceeded available facilities.

An informal evening program included a talk on the psychology of advertising by a member of the university psychology department. A call for favorite colored slides brought good response and included scenes from the summer conference, landscape jobs and landscape materials.

#### Sales Analysis

Dr. Donald P. Watson, Michigan State College, opened the morning program, January 19, with an analysis of the nursery industry in Indiana compared with the national pic-

[Continued on page 66]



Officers and executive committee of Indiana Nurserymen's Association: (Seated) H. J. Schnitzius, New Augusta; Harold Bohling, Munster; Argel Pion, Fort Wayne. (Standing) Troy Bunch, Terre Haute; W. E. Cunningham, Waldron; Earl Moldenhauer, Huntington; Robert Simpson, Vincennes.

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### Hollies in the Southeast

By Charles A. Young, Jr.

The clubhouse of the Ida Cason Gardens, Chipley, Ga., was the site of the winter meeting of the Holly Society of America, January 14. From New York, New Jersey, Ohio Maryland, Arkansas, Tennessee, South Carolina, Alabama and Georgia, 77 members and visitors gathered at the 2,500-acre gardens to hear four speakers, visit the plantings of holly and be conducted through the propagation greenhouse and lath house area.

In welcoming the guests, Mrs. Cason J. Callaway, cofounder and trustee of the Ida Cason Foundation, stated that the purpose of the gardens was to preserve the native Appalachian wild flowers and to inspire better living. C. R. Wolf, Mill-ville, N. J., president of the Holly society, responded to Mrs. Callaway's remarks by stating that the society members were interested in the cultural aspects of all plant materials and pleased to hear that three holly trails were included in the gardens.

#### Landscape Use

Prof. Hubert B. Owens, head of the landscape architecture department, University of Georgia, addressed the meeting on "Holly in the Landscape." He stated that landscape architects in the southeastern region regard the genus ilex with esteem and affection because it is such a versatile genus. The wide range in sizes of holly from ground cover, through small, medium and tall trees, both evergreen and deciduous types, and the availability of red, blue, black and yellow-berried varieties were the basis for his designation.

A change from the nursery stock offered in the 1930's and 1940's to include a number of hollies was attributed in part to the freezing weather of November, 1950, in which hollies withstood the low temperatures experienced in Alabama and Georgia; the significant work of Dr. Harold H. Hume, and the educational work of the Holly Society of America.

In outlining the characteristics of objects and the principles of design in relation to the application of holly to landscape architecture, Professor Owens observed that contemporary architects were providing plans" for residences. More thought is being given to orientation, integration with the site and locating the living quarters adjoining the private areas of the grounds. Planting materials, with an emphasis on those native species which are appropriate for specific landscape uses, are in demand. Gardens in the newer homes will be characterized by small arbors, small sculptures and pools and by the use of planting beds adjacent to paved areas. The Italian gardens offer the best lessons for design in the south. Professor Owens concluded his address with the showing of Kodachrome slides of historic and modern use of plant materials in Italy, Switzerland, Portugal and France.

#### Garden Development

Fred C. Galle, horticulturist for Ida Cason Gardens, described the developments which began in 1949. The gardens were opened to the public in 1951 with the opening of the woodlands to show the native wild flowers, shrubs and trees. Sepa-

rate trails for American holly, English holly and Oriental holly have been created. A magnolia arboretum, native azalea trail and a trail designed for bird watching are planned for 1955. A bathing lake with a ½-mile white sand beach and an 18-hole golf course are also featured at the gardens. His talk was accompanied by Kodachrome slides of native wild flowers growing in the gardens and the plant materials introduced for display.

His techniques and the planting materials employed in 12 flower arrangements utilizing holly were described by Prof. Henry Orr, Alabama Polytechnic Institute. Professor Orr encouraged the audience to use readily available materials to develop skill in flower arranging and then to seek out more classic materials and apply formal treatments. Arrangements made by Professor Orr in his demonstration are shown on the speakers' table in the accompanying illustration.

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#### New Jersey Orchard

The management of the holly orchard of the New Jersey Silica Sand Co. was described by Daniel G. Fenton, Millville, N. J. Consisting of 2,800 trees, the orchard was begun in 1939 to supply the Christmas holly sprays for customers of the sand company. An overgrown farm was cleared of oak and pine saplings and the soil quality restored with applications of leaf mold and cow and chicken manure. An organic fertilizer is now used and the pH of the soil is stabilized at 6.0 to 6.2. Clean cultivation is practiced in the orchard.

A spraying program is in operation which uses DDT for the control of holly leaf miner, Aramite for the control of red spider, and a 2 per cent dormant oil for scale, applied during April before new growth develops. Spring frost damage is minimized by the use of air-circulating machines mounted on 30-foot towers at two locations in the 14-acre tract. Smudge pots and bonfires are used to supplement the machines during critical periods of weather. Full pollination is assured by the use of five hives of honeybees when the holly is in flower.

Wilding holly trees were used to establish the orchard and nurserygrown stock is being used to extend the planting, Mr. Fenton stated.

#### Growing in Southeast

The topic, "Growing English Holly in Southeastern States," was discussed by William C. Frierson, [Continued on page 71]



Speakers at the Holly Society meeting at the Ida Cason Gardens, Chipley, Ga.: (Left to right) Daniel G. Fenton, Dr. William C. Frierson, Prof. Hubert Owens, Fred C. Galle, Prof. Henry Orr and C. R. Wolf.

# Maryland Discusses Trade Problems

By George S. Langford

About 160 were on hand for the annual meeting of the Maryland Nurserymen's Association, held at the Emerson hotel, Baltimore, January 12 and 13. A good variety of speakers was heard, presenting much interesting and varied information.

The afternoon of January 12 was devoted to discussions on business problems and a social get-together. These discussions were followed by a talk by Dr. Lee J. Enright, University of Maryland, on research now being done at the university for the benefit of nurserymen. Dr. Enright outlined the opportunities for supporting fellowships at the university for furthering work in the interest of the nursery industry. It was the consensus of those present that the association should attempt to promote a fellowship, and it was agreed that the matter should be referred to the board of directors for further study.

Among the several problems discussed were methods used by certain chain stores in merchandising nursery stock. It was the feeling of the group that much of the stock offered for sale by certain chain or similar stores was good when delivered by the wholesaler, but because of the way it was handled much of it was often worthless by the time it reached the consumer. One suggested remedy that seemed to meet with general approval was that wholesalers should make more effort to instruct chain stores and similar establishments as to the best way of handling nursery stock. It was agreed that good survival in nursery stock, regardless of source, was advantageous and helpful for all associated with the industry.

Two other problems which received considerable discussion were cooperative advertising by the association for the benefit of its members and water supply during dry periods for nurseries operating in municipalities. Resolutions were approved authorizing the president to appoint committees to look into a public relations program that would be of benefit to association members; to consider cooperative advertising: to promote harmonious relations between the association and the various garden club groups. It was decided to draft resolutions that could be used in presenting facts to municipalities on the needs of nurserymen for water and at the same time study

the entire water conservation problem. It was suggested that the Maryland farm bureau be requested to aid the nurserymen in a study of water conservation.

#### Officers Elected

New officers elected include president, Edward L. Stock, Jr., Stock Bros., Inc., Bethesda; first vice-president, Carville G. Akchurst, Akchurst Nursery, Fullerton; second vice-president, Ernest L. Bartle, Hagerstown Nursery Co., Hagerstown; treasurer, C. Willard Stoner, Westminster Nurseries, Westminster; executive secretary, Paul S. Hofmann, Towson Nurseries, Tow-

MARYLAND PRESIDENT

The new president of the Maryland Nurserymen's Association is Edward L. Stock, Jr., of Stock Bros., Inc., Bethesda, Md., which was started as a landscape maintenance business in 1933 and incorporated three years later under the present name. The firm operates 23 acres, growing nursery stock for landscape contracting.

Born at North Tonawanda, N. Y., in 1906, Mr. Stock moved to Washington, D. C., with his family a year later, and since 1914 he has resided in Montgomery county, Maryland. He graduated from St. Albans School for Boys in 1924 and from Cornell University five years later, with a B. S. degree in horticulture.

later, with a B. S. degree in horticulture.

Besides having been vice-president of
the Maryland Nurserymen's Association
for eight years, Mr. Stock is vice-president
of the Montgomery County Social
Service League, treasurer of BethesdaChevy Chase Educational Foundation and
past president of Rockville Pike Business
Association and of the Bethesda-Chevy
Chase Rotary Club.

Mr. Stock was married in 1934 and has four children. His wife graduated from Pennsylvania School of Horticulture for Women the past August. son, and educational secretary, George S. Langford, department of entomology, University of Maryland, College Park, Md.

New members of the executive committee are John Grier, Forest Hill; Gilbert Gude, Rockville; Hollis J. Howe, Towson, and Paul Stadler, Silver Spring. Carry-over members are Elton L. Lynch, Lincoln, Del.; Robert S. Johnston, Easton; Paul E. Snyder, Frostburg, and Milo G. Coplen, Rockville.

Paul S. Hofmann was named as the association's representative to the farm bureau, and Dr. Ernest N. Cory and Dr. Lee J. Enright will serve as advisers from the University of Maryland.

#### **Educational Meeting**

The educational meeting was opened with a short address from President Carl Orndorff. He briefly outlined some of the opportunities open to the association for aiding and promoting the nursery industry. He also briefly reviewed the activities of the association during the past year, including the petitioning of the Department of Agriculture for the continuation of the federal Japanese beetle quarantine and the cooperation given the American Association of Nurserymen in opposing the amendment to plant quarantine 37, which would allow plants to be imported growing in certain packing media. Mr. Orndorff pointed out that the administration, inspection and policing necessary to enforce effectively such a regulation would be extremely costly and that there was uncertainty that fumigation at the port of entry would effectively destroy harmful bacteria and nematodes that might be in the balls of packing in which the plants were being grown.

#### **Human Relations in Business**

F. H. Spencer, United States Department of Agriculture, Washington, D. C., followed President Orndorff with a down-to-earth and inspirational talk on human relations in business. He listed, step by step, qualities essential to success in the area of human relations. Some of the qualities discussed included knowledge of human relations, imagination, responsibility, ability to delegate, decisiveness, dependability, integrity, unselfishness, loyalty, pa-

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Dr. Paul E. Nystrom, head of the university's department of agricultural economics, followed Mr. Spencer with a discussion of the economic outlook for 1955. He pointed out most farm enterprises are in trouble and said "agriculture is suffering the adverse effects of the inflation-deflation period we recently have experienced. Farm income is off 25 per cent over the past three years. The cost-price squeeze is still on and is likely to continue."

Farm prices, he said, dropped 15 per cent during the past year, but the cost of producing farm commodities was off only 4 per cent. In contrasting agriculture with other businesses, he stated that "while farmers on the whole can expect little improvement in their economy, the national business outlook for the next 12 months is good." Because of this and the stability of employment. with resulting high consumer activity, it was his feeling that demand for nursery stock, particularly ornamentals, should remain high.

The last speaker during the morning was Dr. W. F. Jeffers, University of Maryland plant pathologist, who discussed the menace of Phytophthora cinnamomi to woody ornamentals. He said in Maryland this fungus appears to be an important factor in the death of boxwood and yew; however, he noted, it has been found on other plants including azalea, rhododendron and viburnum. Phytophthora root and crown rot, he said, is more common in poorly drained soil and in plants that have been set too deep in the soil. Yews frequently die when grown in poorly drained, acid soil even though this fungus is not present. However, when present, the disease seems to be more severe. He advocated that nurserymen use every precaution to prevent contamination of cuttings, propagating beds, rows, lining-out stock, etc., and that in the final planting area well-drained soil be

#### The Banquet

At the luncheon banquet Henry Hohman, Kingsville, served as toastmaster. The highlight of the occasion was the awarding of the association's professional achievement certificate to Mr. Hohman. After a brief statement by Dr. Ernest N. Cory, Maryland's state entomologist, on Mr. Hohman's many accomplishments, the presentation was made by Paul Hofmann, Towson Nurseries. The principal speakers at the ban-quet were Dr. Thomas B. Symons, member of the University of Maryland board of regents, and Dr. Wilson H. Elkins, president of the university. Special guests included Dr. James M. Gwin, director of extension; Dr. I. C. Haut, director of the experiment station, and Dr. Nystrom, all of the University of Mary-

#### Show Summer Movie

A popular item on the afternoon session was a movie taken and prepared by Patsy Donofrio, Carroll Gardens, Westminster, which covered activities at the 1954 summer meeting. Many of the nurserymen were able to observe themselves for the first time as star movie perform-



Review of the opening day of the first winter trade meet of the Southern Nurserymen's Association brings smiles of satisfaction to some of the members who planned and promoted the meet, (left to right) George Sawada, Hoskin Shadow, Gervin Pringle, Arthur Watson and Ollie Gresham.

The first talk of the afternoon was on the culture of camellias and other semihardy ornamentals on the eastern seaboard, by Dr. Francis deVos. United States National Arboretum. Washington, D. C. Dr. deVos reported that there were a number of

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#### SOUTHERN ASSOCIATION

#### First Winter Trade Meet

As another one of its services to the membership and to the nursery industry, the Southern Nurserymen's Association held its first annual winter trade meet January 23 to 25 at Jacksonville, Fla. In spite of the blustery and chilled weather, very unusual in Florida, the response of the various nursery and allied groups was extremely gratifying, and the enthusiasm at the meet was warm and vigorous.

The trade meet officially opened Sunday afternoon, January 23. A get-acquainted buffet supper was enjoyed that evening, with the genial Senator Edwin Fraser as the master of ceremonies. Luncheons were held each of the following days and at both of these the inherent theme of the entire meet, i.e. "It's better to sell quality instead of price," was keynoted by the program. The film, "How to Sell Quality," by the Dartnell Corp., was shown through the courtesy of the Florida Nurserymen and Growers Association at one of the sessions and W. J. Hamerick, of the Gulf Life Insurance Co., gave a talk on "Selling" at the other.

A panel discussion on Containergrown Plants was held, with the following as panel members, J. H. Burton, Hyattsville, Md.; Edwin Burton, Hyattsville, Md.; Edwin Fraser, Macclenny, Fla., and Elwood Stephens, Semmes, Ala.

#### Directors' Meeting

The midwinter meeting of the board of directors of the Southern Nurserymen's Association was held at Jacksonville, Fla., January 22 and 23, at the Roosevelt hotel. President Hoskins Shadow presided.

Routine business was discussed, and plans were laid for the annual convention, to be held August 14 to 16, at Asheville, N. C. George Vanderbilt hotel will be convention headquarters.

The following board members were present: President, Hoskins Shadows; vice-president, George Sawada; secretary - treasurer, Gresham, and members Jack Aichele, Aubrey Owen and Arthur Watson. G. S.

# Selling, Chief Topic at Oklahoma City

By Betty H. Prim

The winter meeting of the Oklahoma State Nurserymen's Association, at Oklahoma City, January 19 and 20, was accounted one of the best yet held by this organization. Besides business sessions, there were instructive talks by experts on soils, advertising, salesmanship, landscaping and related topics.

Officers for 1955 elected at the final session are president, Alvin Dickerson, Jr., Talequah; vice-president, Gene Fleming, Oklahoma City, and secretary-treasurer, Harold

Nickels, Muskogee.

Host city will be Tulsa for the winter meeting in 1956. The group voted to leave the decision of summer meetings to the discretion of the executive committee.

Serving on the executive committee are the following state nurserymen: Bruce Rey and Frank Sneed, Oklahoma City; Earl Nelson, Enid; Ted Tetirick, Pawhuska, and Mario Sanseverino, Tulsa.

#### **Opening Session**

President Earl Nelson opened the convention by presenting special guests and then gave his address. The work of nurserymen, he said, cannot be measured in terms of money, and he pointed with pride to the part nurserymen have played in beautifying parks, playgrounds, industrial developments and private

After the secretary's report by Gene Fleming the group adjourned for luncheon.

#### Planning for Retail Profit

Speaking on the subject, "Planning for Retail Profit," Bill Biggs, of Wolfe Nursery, Stephenville, Tex. brought nurserymen a well-planned talk, that covered such factors as good advertising, promotion, proper displays and good salesmanship.

Mr. Biggs said emphasis must be placed on selling creatively rather than on pricing merchandise. It is doubly important, he pointed out, to include enough margin when pricing the merchandise to allow for selling creatively.

"The customer does not buy because of the price. You have to create a desire for the merchandise in his mind before he will buy," said. "It is important to prime the pump. First, develop a simple outline of what you want to do. Make a statement of the results expected. Get reliable information. Tell your employees of your plan.

You must make the man with a dollar feel the need of the product you have," he said. "Create in the potential customer the desire to own what you have to sell. This is one of the basic requirements of sell-

Some of the desirable features of a good salesyard he listed as: A good location where there is ample traffic. Adequate parking facilities. Display of merchandise so that it is easy for the customer to shop. Displays opening into the nursery proper.

#### Soil Conditioning

Dr. J. Q. Lind, agronomist of Oklahoma A. and M. College, Still-

#### OKLAHOMA PRESIDENT



Alvin Dickerson, Jr., the new president of the Oklahoma State Nurserymen's Asof the Oklahoma State Nurserymen's Association, married into the nursery business nearly eight years ago. He was studying at Oklahoma A. & M. College to be an electrical engineer, but Ben Davis, his father-in-law, convinced him of the opportunities in the nursery field. So he gave up engineering to begin work with the Ozark Nursery Co., Tahlequah Okla., where he was given a free hand in the management of sales. He reorgan-ized from top to bottom, first the mail order end of the business, then the drive-in retail salesyard and finally the wholesale trade. The expansion in sales and profits that have resulted are proof of his ability in the field.

Besides being active in nurserymen's organizations, Mr. Dickerson is a member of Lions International, a director of the chamber of commerce and an officer in the junior chamber of commerce.

water, discussed soil conditioning, beginning with the simple statement that soil structure is an arrangement of soil particles. He showed three types of Oklahoma soil which he had brought to the meeting. He suggested problems that these and other samples of soil might present and offered suggestions for proper treatment to produce better crops. Factors in a practical solution included these: Create a new structure by proper tillage. Stabilize the granules by humus-this is the only permanent stabilizer known and is the most effective.

He pointed out that the solution is not to add sand. Sand and tillage may temporarily improve the condition, but the procedure is not recommended. The same thing can be accomplished with tillage alone.

Dr. Lynd said the amount of humus in natural virgin soil depends on many factors. With tillage the amount decreases. It is then necessary to add organic materials, such as crop residue, manure or compost.

"If the grower is in a hurry and desires temporary results and does not mind the expense, commercial conditioners may be the answer," Dr. Lynd said.

Speaking of specific soil situations, such as salt accumulation in soil, he said this will require proper drainage and gypsum additions.

Dr. Lynd invited questions at the close of his talk, and much additional helpful information was given in the answers.

#### Merchandising

Howard Carraway, of Fort Worth, Tex., created tremendous enthusiasm at the Wednesday afternoon session with his talk on merchandising. He asserted that the primary objective of any business is profit and the surest route to profit in business is advertising. Advertising is the cheapest avenue to mass production, he said. The purpose be-hind each type of advertising is to make the customer want what is to be sold. "Any business needs a fixed policy of sales advertising," he said.

"Persuade people to want what you have to sell," he advised. And in this, salesmen are most important. He gave the definition of a salesman as "a person who helps other people want something.

"Life is made up," he said, "not

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of things, but of people." He said the customer is not impressed with the price of a tree for his yard. He is thinking of the compliment his neighbor will pay him and how attractive the tree will make his place. He is not thinking of the price of the tree, no matter what price you put on it. He is thinking of the satisfaction he will get from owning it, and that is what sells the tree.

Mr. Carraway gave some valuable suggestions on the pricing of merchandise. He said problems arising in advertising need the help of an expert in order to get the most from advertising dollars.

Speaking of securing customers, he suggested contacting them by telephone, printed matter or door-to-door contact. He said a prospective customer who has only recently moved into the area would appreciate a call from a nurseryman who courteously introduced himself and offered his services. He suggested, too, a follow-up letter of thanks to customers. Business is there for all, he said, if nurserymen will only sharpen their sales efforts.

#### Landscape Design

Thomas Roberts, Oklahoma City landscape designer, offered some practical suggestions on landscape design and construction, using slides to illustrate his remarks. Some of the slides showed pictures of landscape work at different stages of construction, giving clear details of how it was done.

Mr. Roberts pointed out that a landscape design job must not only be ornamental and attractive, but it must also serve the client's needs. He said it is the landscape man's responsibility to aid the client in selecting the lot and to see that the house is properly placed on the lot so that the house and the landscape design will be properly oriented for a pleasing effect. He must also talk with the residential architect so that all work is right for that particular house, such as windows being properly placed so that the beauty of the yard can be seen from within the house.

It must be remembered, too, that anything in view becomes part of the landscape. Plant material is not the only thing to be considered. The

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#### MIAMI STAGES PLANT SHOW

Two years ago, when the Dade county chapter of the Florida Nurserymen's and Growers' Association held its first plant show, there were only 28 exhibitors and a total attendance of 7,000 people. Last year, 13,000 people came to see the second show, which had increased to 38 exhibits.

This year the nurserymen decided to go all out for a big show, giving everyone the opportunity to attend. The huge Dinner Key auditorium, Miami, where parking facilities were available for 2,500 cars, was engaged. Final attendance figures totaled 53,723, setting a record of more than four times last year's attendance.

The methods used to bring in this tremendous crowd were free parking, free admission, valuable prizes and an invitation for the public to bring their plant problems before a panel of experts who gave free information and advice. A week-end of perfect weather plus the above inducements drew the record turnout.

The visitors were well pleased with the 60 plant exhibits and the 85 displays by allied trades.

The doors were opened to the public at 2 p. m. Friday, January 7, and again from 10 a. m. until 10 p. m. on Saturday and Sunday.

Just prior to the official opening, there was a gathering of exhibitors, visiting dignitaries and members of the press, radio and TV. During this preview, refreshments were provided by Arvida Nursery, of South Miami.

The affair had received excellent advance publicity through local newspapers and radio and TV stations.

Friday evening, Jim Griffin, executive secretary of the Florida Nurserymen's and Growers' Association, showed color slides on landscaping and ornamental plants.

Saturday morning at 11 o'clock a question and answer clinic was conducted by Carl Bachman, president of the Dade county chapter. Mrs. Cleo Neel Elder gave a short talk on annuals. Mrs. Myrtle Armstrong, Kitchen Door Nursery, spoke on ornamentals. Raymond C. Hogshead, of North Miami, spoke on foliage plants. Raymond Plumer, superintendent of Miami city parks, spoke on the beautification projects in his department. Oscar Nelson, Nelson's Nursery, answered questions which had been deposited in a box by members of the audience.

At 8:30 p. m. another series of educational lectures was presented. George G. Schoetzer spoke on the use of palms to the best advantage.

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At another program at 2 p. m. Sunday, Dr. S. J. Lynch, University of Miami, and Dr. Bruce Ledin, University of Florida, spoke on fruit trees. Hugh Lalor spoke on the foliage plant industry, and State Senator Edwin Fraser, Southern States Nursery, on general stock. James Dunaway, Tropical Landscape Co., discussed the situation in which FHA financing allocates funds for landscaping and the money is not used for this purpose. He said that purchasers of new homes financed under FHA were being fleeced of millions of dollars in Florida because they were not getting the landscaping called for by specifications. A special exhibit showed homeowners samples of what is being done and what should be done.

Carl Bachman, president of the Dade county chapter of F. N. G. A., says plans are already being made for next year's show, with over half of the space sold this year having already been contracted for again next year.



Portion of the Plant Show at Dinner Key Auditorium, Miami, Fla.

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# **Washington Winter Convention**

By John B. Strander

In dispatch of business and in its educational program, the convention of the Washington State Nurserymen's Association, held January 17 and 18 at the Winthrop hotel, Tacoma, was regarded as the most memorable in the association's his-

President W. M. Steward, Maple Valley, began the first session by calling attention to the work of the convention committee. Mrs. Helen Firth, Firth Nursery, Tacoma, was chairman. Frances Kinne Roberson, L. N. Roberson Nursery, Seattle, created the actual program. Angelo Balzarini, Five Corners Nursery, Seattle, was in charge of the commercial displays, staged by almost 50 firms. The committee was assisted by Henrietta Balzarini, Esther Balzarini and John Eichelser.

One of the highlights was the awarding of an honorary life membership to Brian O. Mulligan, director of the University of Washington Arboretum, Seattle. Mr. Mulligan has always exerted himself to be kind and helpful to any member of the trade who has come seeking information. At the banquet, presentation was made of a large silver tray and coffee maker to John B. Strander for his efforts in promoting the Pacific northwest nursery industry.

At the opening session greetings were presented by Mrs. William Goering, a member of the Tacoma city council and an amateur gardener.

A business meeting completed the

morning and was followed by a group luncheon in the Crystal ballroom of the hotel. John B. Strander was appointed chairman of a committee to investigate the possibility of obtaining market research in ornamental horticulture. Other members of the committee are Ben Seike, Des Moines Way Nursery, Seattle; Harry Post, Auburn Taxus Nursery, Auburn; Bryan Taylor, Taylor Nurseries, Seattle, and Howard Lynn, Lynn Gardens, Tacoma.

The afternoon session was opened by a talk on population by Ted Brown, Brown's Nursery, Ephrata. Mr. Brown is an expert on population movements within the new Columbia basin irrigation project. The state of Washington is on the verge of becoming one of the nation's most important regions economically, he said.

The banquet, planned by Esther Balzarini, was held January 17. Dr. D. F. Allmendinger, director of the western Washington experiment station, led the group in singing. An inspiring message was delivered by Roderic Olzendam, founder and director of the "Live and Let Live" Association, a group working for highway traffic accident reduction. Then the Eagle's Broadway & 42nd Street Revue provided a display of precision dancing and singing. Henrietta Balzarini arranged for the appearance of this group of TV and recording artists.

The second day opened with the appearance of a number of nursery-

men on the Burt McMurtrie show over radio station KTAC. "Breadfast with McMurtrie" originates in the Winthrop hotel and commands a wide following throughout the Puget sound region.

The morning meeting began with more singing, led by Prof. Willard Summers, of Washington State College, and W. M. Steward.

Then the nurserymen divided into round-table groups to discuss current problems. After one hour the groups were broken up. After a few moments of relaxation, they convened again, with the leaders talking again about the same subjects. The repeat enabled the members to take part in two areas of interest. Subjects and leaders were:

Propagating: Bob Moller, State Flower Nursery, Bothell, and Jack Spaargaren, Hollandia Gardens, Seattle.

Landscaping: John B. Strander, Strander Nurseries, Seattle, and Harley Mays, Mays Landscape Nursery, Vancouver.

Merchandising: John Snyder, C. & O. Nursery, Wenatchee, and John Eichelser, Melrose Seed & Nursery, Tacoma.

Land utilization: Stanley Walters, Walters Nursery, Puyallup, and Harold Wells, Wells Nursery, Mount Vernon.

The afternoon began with a business meeting of the Washington chapter of the American Association of Nurserymen, of which Stanley Walters, Walters Nursery, Puyallup,



Officers of Washington association and A. A. N. chapter (left to right): John Snyder, Victor Mix, Harley Mays, Lenora G. Walters, W. M. Steward, Larry Krause, Stanley Walters, Harold Hopkins and John B. Strander.

is president, and Lenora G. Walters, secretary-treasurer. An election resulted in Leonard H. McGuire's becoming the delegate of the chapter to the next A. A. N. convention. John Snyder, C. & O. Nursery, Wenatchee, who is chairman of a committee to plan entertainment for a stopover of A. A. N. convention visitors in Seattle in 1956, reported on arrangements.

At the concluding session of the state association meeting, Harold Hopkins' earlier proposal on a uni-

form guarantee was unanimously accepted. Larry Krause, Krause Nursery, Spokane, and Clarence Malmo, Malmo Nurseries, Seattle, were appointed to revise and streamline the association's constitution and to investigate the possibility of incorporation. A committee on fair trade practices was appointed, as follows: Leonard H. McGuire, chairman; Harold Hopkins, Hopkins Nursery, Bothell; Bob Tindall, R. E. Tindall Nursery, Bothell; John B. Strander, and Harley Mays.

# Western New York Group Reviews State Problems

By William E. Snyder

At the annual winter meeting of the Western New York Nurserymen's Association, held January 21, at the Hotel Sheraton, Rochester, Al Syneseal, Jackson & Perkins Co., Newark, welcomed one of the largest groups to attend this meeting in recent years, over 125 persons. William Kelly, Kelly Bros. Nurseries, Inc., Dansville, presented the report of the secretary and treasurer. Activities of the association during the previous year were described, and it was reported that the association continues to have a steady increase in membership.

The association has been invited to prepare an exhibit for the 1956 annual meeting of the New York Horticultural Society. John Kelly, Kelly Bros. Nurseries, Inc., was appointed chairman of the committee to make the necessary arrangements.

Bernard B. Stangler, Land-O-Trees Landscape Service, Buffalo, who is secretary of the New York State Nurserymen's Association, described some of the activities of the state organization. He mentioned the research grant to Cornell University, the 4-H Club landscape prizes and the publication of the New York Nursery Notes.

The officers elected at the meeting are: President, Bernard B. Stangler, Land-O-Trees Landscape Service, Buffalo; first vice-president, William Boocock, Four Winds Farm Nursery, Buffalo; second vice-president, Dan Quigley, Maxwell, Bowden & Rice Nursery, Geneva; secretary-treasurer, William Kelly, Kelly Bros. Nurseries, Inc., Dansville.

Directors for the New York State Nurserymen's Association are Ed Monin, Sheridan Drive Nursery, and Robert Auld, Auld's Garden Shop, both of Buffalo. Alternate directors are E. B. Stedman, Stedman's Nursery, Newfane, and Dick Roberts, Roberts Nursery, Dansville.

The morning session was highlighted by a talk by Dr. Richard P. White, executive secretary of the American Association of Nursery-men, whose topic was "Washington Reporting." The two main parts of his remarks concerned the significant portions of the President's messages to the Congress which affect the nursery industry and the position of the Washington office of the A. A. N. in relation to the nurseryman. According to Dr. White, it is doubtful if there will be any reduction of excise or corporation taxes this year. A change in the minimum hourly wage will affect nurserymen through possible increased competition for workers. The proposed federal-state highway program and the new federal-state school program will be of considerable interest to the industry. Changes in some postal rates may be made to compensate for the proposed pay increases for governmental workers.

The A. A. N. group insurance provisions are better this year than last year, according to Dr. White, and a comparison of the A. A. N. policy with private policies was invited. The industrial beautification program, now in its second year, was an instantaneous success. His remarks were concluded with a short discussion of the annual convention to be held at Toronto, July 10 to 14.

After luncheon, Joseph E. Myler, secretary - treasurer of Neisner's Stores, talked on the subject, "What I Foresee in the Future." Mr. Myler stated that 1955 had prospects of becoming the second best business year in our history. He also stated that the rapidly expanding popula-

tion should account for continued good business conditions through 1960, and he struck an optimistic look for the future beyond 1960.

Prof. Frank A. Pearson, of the department of agricultural economics, Cornell University, told the nurserymen that they could do their own forecasting about business by asking the local car dealers, clothing merchants and building contractors. "How's business?" According to Mr. Pearson, 85 per cent of American business is accounted for by food, clothing, building and automobiles. Over the years food remains relatively constant, but the other three items fluctuate in cycles, clothing in 2-year cycles, automobiles in cycles of three to four years and building in cycles of 18 to 20 years. He explained that the longer the cycle the more violent the fluctuation. Although Mr. Pearson believes that 1955 will be another good year, he warned of the time when there would be closets full of clothes, cars in all garages and the appearance of numerous "For rent" and "For sale" signs on American homes and buildings. Such a condition will spell trouble, he warned.

A discussion of the maintenance of virus-free bud stock for stone fruits was given by Karl Brase, of the Geneva experiment station. He described the methods in use at the experiment station for the annual indexing of cherry bud stock for vellows and leaf ring spot. Maintenance of an isolation block for bud stock was recommended. He said that virus-free budwood can be obtained from the station to establish such blocks and that the bud stock should be isolated from all other stone fruits, for example, by placing in an apple planting. Budwood can

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# P.O. Approves PolyethyleneWraps

While amendment of the postal laws and regulations has not been made, the general approval of parcel-post shipments of nursery stock packaged in polyethylene-coated kraft paper and polyethylene film has been received from the Post Office Department by the Washington office of the American Association of Nurserymen.

Last year individual mail-order nursery firms received letters of permit from the Post Office Department to ship in such packages, test mailings of which were made to the satisfaction of the mail officials. This year packages as described below can be made without individual firms' securing permits.

The ruling results from recent correspondence between R. P. White, A. A. N. executive secretary, and N. R. Abrams, Assistant Postmaster General.

Support of the ruling resulted from the test mailings made last season to Dr. White and the post office at Washington, D. C., by mailorder nursery firms. The experience of such firms in the use of polyethylene wraps has followed experiments of Iowa nurserymen and members of the staff at Iowa State College, which have been reported in several articles in the American Nurseryman.

Important evidence of the success of the new wraps was presented in a statement of its past year's experience by the Henry Field Seed & Nursery Co., whose vice-president, George Rose, has been prominent in this pioneering effort. His statement of the remarkable results follows:

"During the year ended August 31, 1954, nearly 400,000 nursery shipments were made by this company in polyethylene film and polyethylene-coated kraft paper.

"The shipments of deciduous material were made in polyethylenecoated kraft paper identical to the samples sent to the Post Office Department some time ago. No packing of any sort was used in these packages, and no moisture was added, as we find that any added moisture tends to cause mold and rotting.

"The perennials and strawberry shipments were made up with most of the plants of perennials being individually wrapped in polyethylene film or dropped in polyethylene sacks. Strawberries were dropped 25 plants per bundle into a polyethylene sack, and then the plants

contained in an order were either wrapped in a sheet of 60-pound kraft or placed in a shipping carton.

"In the house plant department, individual potted plants were placed in paper shipping pots and then dropped into polyethylene sacks. They then were packed into a specially designed carton, such as the triangular carton and other types which have been engineered for superior strength and all of which have been submitted to the Post Office Department for testing in the past months.

"In the shipping of the above three types of plants, no moist packing of any sort was used, and in each shipment a notice was inserted advising the customer about the new method of shipping and of the three years of experimentation by Iowa State College and many nurseries in Iowa that led to the perfecting of this new method."

"We have received many letters of commendation from our customers on the condition of the plants when they reached their destination and very few letters of complaint. These letters of complaint mostly were from people who did not read the notice in the package regarding the new type of packing and who felt sure that some one in the nursery had forgotten to add the damp packing material. When an explanation was sent to these people who complained, we often received a letter back advising us that they just had not realized what we were trying to do and that actually the

plants had arrived in fine condition. "Our service department in its annual report covering the year ending August 31, 1954, has offered some startling figures which seem to indicate that the type of packing adopted by our firm for the past year has had far better results than we had dared hope. From the report of our service department, we offer the following data:

"In the year ending August 31, 1954, there was a decrease of 21.9 per cent in the number of customers reporting shipments received in a physically damaged condition, compared to the year ending August 31, 1953. By 'damaged' the service department means that the package of nursery stock was in some way injured, either broken or torn, or that the stock within the package was broken or bruised. That is, in this particular category, damage means physical damage of some sort to the shipment.

"In the service department report on quality covering the same period, the following data were given, which to us is astounding:

"For the year ending August 31, 1954, there was a reduction of 84.1 per cent in complaints by customers of plants that reached them in poor quality; that is, dried out, rotted, heated or any of the other categories that denote a poor appearing plant when it reached the customer other than physical damage.

"A careful examination was made here to ascertain whether or not any one item in 1953 may have given a great deal of trouble, and thus built up the quality complaints for that year. We found that not to be true, and on checking back through the previous several years, we found that the sudden drop in 1954 could only be explained by better shipping methods which allowed the plants to reach the customer in much better condition.

"We are absolutely convinced that the above method of shipping is the one which should be used by the [Concluded on page 27]

#### MAIL ORDER FOUNDERS



Bert W. Keith, of Keith Bros. Nursery, Sawyer, Mich., was presented with a handsome wrist watch at the conclusion of the recent meeting of the National Mail Order Nurserymen's Association at Chicago, by Eldon Burgess, Burgess Seed & Plant Co., Galesburg, Mich. Both were charter members of the association, and Mr. Keith served as secretary for the first fourteen years and Mr. Burgess as the first president, from 1934 until 1940. While they received valiant support from a dozen other charter members and were succeeded by officers as energetic, these two leaders were credited with the lion's share of the responsibility of guiding the association through its early years.

# Top Speakers Fill Two Days at Eleventh Long Island School

By Daniel Dowd

Outstanding speakers discussed current topics at the eleventh annual school for nurserymen and employees, January 18 and 19, sponsored by the school of horticulture of the Long Island Agricultural and Technical Institute, with the New York State Nurserymen's Association cooperating. Over 125 visitors attended the meetings in Knapp hall on the campus at Farmingdale, L. I.

#### Projects at Farmingdale

Carl F. Wedell, head of the school of ornamental horticulture, after welcoming the nurserymen, told of recent developments at Farmingdale and of the outlook for the future. Despite a peak enrollment of 160 students in ornamental horticulture, it is not possible to begin to meet the needs of the industry, and the plea is made for nurserymen to send qualified candidates to the college. During the past year Farmingdale became one of the accredited test grounds for All America flower and vegetable trials. It continues the trials for the America Dahlia Society and also has conducted some significant research on garden roses. The chrysanthemum test garden displayed 325 varieties of garden mums last fall.

The Long Island Nursery Foundation has established a \$1,000 loan fund for students of the institute and supports an annual fellowship of \$3,000 for the running of tests and trials in nursery operation. Liquid assets of the foundation now total \$14,000.

This year the taxus collection is to be inaugurated on a 10-acre plot at Planting Fields, the estate of W. R. Coe, at Oyster Bay, L. I. This 409-acre estate was conveyed to State University of New York in 1949 and is to be the new campus for ornamental horticulture when arrangements are completed. The collections of orchids and rhododendrons have been greatly increased. In this collection it might be noted that the only public showing of Planting Fields is on azalea day, May 14, and rhododendron day, June 4. An admission contribution of \$1 goes toward the Planting Fields Foundation.

Dr. George Lawrence, of the Bailey Hortorium at Cornell University, in speaking of the importance of nomenclature to nurserymen, pointed out that there are about 8,000 more species known to be in cultivation today than in 1940. The total is now 35,000 and the number is constantly increasing. All of the authoritative reference texts are outdated or obsolescent, and work is progressing upon Hortus III, which should bring horticultural classification up to date; however, no date of publication is in immediate prospect.

Dr. Lawrence explained how some confusions have come to exist in horticultural taxonomy and of present efforts to make corrections in conformity with an international botanical code, which was adopted at the international plant congress in 1953. The new Hortus will include the common English names of plants when such names are in general use. The rule on capitalization of species names has been liberalized, so that for the most part capital letters are not used.

One of the services of the hortorium is to answer the many questions on nomenclature which come up. The extensive collection of nursery catalogs is valuable in locating plant materials and also as a historical record of our time. Nurserymen are urged to assist this project by putting the hortorium on their annual mailing list.

Dr. Lawrence's talk was illuminated with interesting sidelights relating to the late Dr. Liberty Hyde Bailey's character and contributions to horticulture.

#### Ethics in Advertising

Van Miller, a vice-president of the National Better Business Bureau, said that his organization regards advertising as the voice of business and took the view that nurserymen could develop much louder voices. Ofter nurserymen are not aware of the tremendous potential market which is open to their product in these times of new housing construction and mass moves to the suburbs. Some promotional advertisers have pointed the way with their campaigns to put over single plant varieties.

The better business bureau lies between the consumer and the producer and has the prime aim to see that the public is served with honest value. In our free enterprise system it is much better that the advertising industry do its own policing rather than to fall under government regulation. Some regulatory bodies do exist such as the federal trade commission and the Post Office department. It is an encouraging thing that many advertisers seek the advice of the better business bureau before embarking on a large program.

Some suggestions on advertising are: Tell the customer what he wants to know. Give the true name; the correct sizes, delivered and when matured; hardiness; hardiness zones should be made known to people; cultural requirements. Do not exaggerate the yield. Tell who is selling the material. Give a forthright guarantee.

Nurserymen are asked to report irregularities to the BBB as a matter of self-interest. All correspondence is confidential. Leads are followed up by trained investigators. Copies of the fair trade code of the BBB can be procured from the office in your district.

#### Mist Control

Harvey Gray, instructor of nursery management, talked on the subject of vapor control. In the development of the subject Mr. Gray discussed the role of water in the living plant, the functioning of the conduction system in plants and the laws of diffusion of gases. He presented data which indicated the relative values of misting vs. film coverings in the propagation of woody plants from cuttings. The weight of evidence indicated greater economy of operation with use of film coverings (polyethylene). It was also indicated that a constant high vapor pressure could be maintained under film, whereas there is considerable fluctuation with a mist system under glass. Mr. Gray made no attempt to present a brief in favor of either system, but tried to stimulate individual thinking about the problem. However, the fact that he has gone over entirely to the use of polyethylene tents in the propagation house at the institute is definite indication of where his convictions lie.

#### Functions of an Arboretum

Roger Coggeshall, plant propagator at the Arnold Arboretum, spoke ably about the program of the arboretum as it related to nurserymen and his experiences in helping to make it an effective one.

One of the functions of an arboretum is the distribution of new and N

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grows bigger
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					in. Pots
Abelia grandiflora prostrata.					. \$30.00
Acer palmatum					. 15.00
Berberis mentorensis					20.00
Berberis thunbergi atropurpu	ire	ea	١.		. 15.00
Cedrus libani					17.50
Euonymus radicans, upright					15.00
Fatshedera lizei variegata					
llex cornuta burfordi					
llex crenata bullata					17.50

			n. Pots
Juniperus sabina tamariscifolia			 \$20.00
Mahonia aquifolium			 15.00
Osmanthus fragrans			 17.50
Pinus sylvestris regensis			 15.00
Pyracantha Rosedale (T. M. Re	g.	).	 17.50
Rosa rouletti			 20.00
Salvia pitcheri			 17.50
Viburnum suspensum			 15.00



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### WHOLESALE PRICES

	-			Per	Per
Scotch Pine, Riga,	Pine	Seedlings		100	1000
2-0, 2 to 4 ins			\$	2.00	\$12.50
2-0, 4 to 8 ins				4.00	25.00
2-0, 6 to 12 ins				5.00	30.00
				6.00	35.00
3-0, 8 to 16 ins			******	0.00	35.00
American Red Pine,					
2-0, 2 to 4 ins				2.50	15.00
3-0, 4 to 6 ins				4.00	25.00
3-0, 6 to 9 ins				6.00	35.00
Austrian Pine,					
2-0, 3 to 4 ins				3.00	15.00
2-0. 4 to 8 ins				4.00	25.00
3-0, 8 to 14 ins				6.00	
				0.00	****
White Pine,				2 50	15.00
2-0, 3 to 6 ins				2.50	15.00
3-0, 5 to 9 ins				6.00	
4-0, 8 to 16 ins	********			7.00	35.00
Ponderosa Pine,					
2-0, 3 to 5 ins				3.00	20.00
Mucho Pine (True Dwarf	Tyrolean).				
2-0, well-budded	. 1.0.00.71			4.00	25.00
				7.00	20.00
Norway Spruce,	Spruce	e Seedlings			
2-0, 2 to 4 ins				2.50	15.00
2-0. 4 to 8 ins				4.00	25.00
4-0, 10 to 16 ins				5.00	30.00
White Spruce.					00.00
2-0. 3 to 5 ins				3.00	20.00
3-0, 5 to 10 ins		*******		5.00	35.00
Red Spruce,					
3-0, 3 to 5 ins				2.00	15.00
3-0, 5 to 10 ins				4.00	25.00
Black Spruce,					
4-0, 6 to 8 ins				3.00	20.00
4-0, 8 to 12 ins				5.00	30.00
Colorado Blue Spruce,					
2-0, 2 to 4 ins				3.00	20.00
2-0, 4 to 6 ins				5.00	35.00
3-0, 5 to 10 ins		***********		7.00	50.00
Englemann Spruce. None	Available .	**********	*****	* * *	
Balsam Fir,	Fir 5	Seedlings			
4-0, 5 to 9 ins				7.00	50.00
Douglas Fir. None Availa	ble	* * * * * * * * * * * * * * * * *		* * *	* * * *
European Larch,	Larch	Seedlings			
3-0, 18 to 30 ins			11	0.00	75.00
3-0, 10 10 30 1111				,,,,,	
Carolina Hemlock,	Hemloc	k Seedlings			
2-0, 3 to 6 ins				5.00	
Canadian Hemlock,					
3-0, 6 to 12 ins				0.00	80.00
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American Arborvitae,	Arborvit	ae Seedlings			
3-0, 6 to 8 ins				2.50	15.00
3-0, 8 to 12 ins				1.00	30.00
		edlings (Bligh			
	estnut Se				
Chinese Chestnut,		10 Lots	100 Lo		1000 Lots
2-0, 12 to 24 ins		\$0.25 ea.	\$0.20	a.	\$0.15 ea.
3-0, 2 to 4 ft			.40	a.	.30 ea.

(No Parcel-Post Shipments on 3-0 Chestnut)

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SCHROTH'S NURSERY,

INDIANA, PA.

rare plants in seed, budwood or rooted cutting form. Since 1941 the Arnold Arboretum has been distributing material to nurserymen. The material is not patentable nor is it to be sold. It is given as propagating stock. Since the best propagation methods are not known for many of the new and rare plants, it has been one of the tasks of the propagator to investigate the various means. Many of the attempts at propagation have led up blind alleys. For instance, the arboretum has tested all of the hundred-odd kinds of maples to find a compatible understock for Acer griseum, a desirable small tree, but has had no success. As a nonprofit organization, the Arnold Arboretum is better fitted for this kind of research than commercial nurseries. It is planned to devote more time and facilities to nursery research in the near future.

Mr. Coggeshall told how the versatility of polyethylene plastic film has been proved in many of his operations. It is used successfully for budding strips, for grafting strips, for seed stratification, for starting seeds in flats, for rooting cuttings to the extent that the old sweat boxes have been entirely replaced. As a result some of the difficult subjects like pink dogwood, Japanese red maple and magnolias are now rooted regularly from cuttings instead of the cumbersome grafting processes. Also, the use of plastics permits the taking of less mature wood, which roots more easily in many instances.

On seedage methods, he said, seeds requiring no pretreatment are sown directly on sphagnum and covered until the first true leaves appear, at which time the cover is removed. This applies to ericads. Seeds with dormant embryos are placed in plastic bags and stratified for three months at 41 degrees, for a gain of two months over usual methods. Seeds with double dormancy caused by an impervious seed coat are put in plastic bags and left on the warm greenhouse bench for six months at high temperature and then for three months in the refrigerator to permit ready germination. This is a gain of nine months over outside planting.

Mr. Coggeshall discussed many other points on plant propagation which were of great interest to the group.

#### Can Culture

William C. Bowden, Jr., who has been conducting controlled tests for the Long Island Nurserymen's Foundation, reported upon results of experimentation with certain phases of can culture. These experiments he b-

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### WHOLESALE SURPLUS LIST

### LINING-OUT STOCK - - SPRING, 1955

		Each	Each 1000	Each Eac 100 100	
1960	Abies concolor, 3-yr., T., 4 to 8 ins	rate \$0.12	rate \$0.10	rate rat	e 15
200	Acer dissectum atropurpureum, 1-yr., bedded grafts Acer palmatum, 1-yr., S.	.90		2000 Philadelphus Belle Etolie, 1-yr., C	11
500 300	Acer palmatum, 1-yr., S Acer palmatum atropurpureum, seed-grown, 3-yr. T.	.06	.05	2000 Photina villosa, 1-yr., S	95 971/2 121/2
1000	Ampelopsis quinquefolia, 2-yr., S., 9 to 12 ins.	.06	.05	900 Picea canadensis alba, 3-yr., T., 4 to 9 ins	10
2500 1000	Ampelopsis veitchi, 1-yr., T., 12 to 18 ins Ampelopsis veitchi, 1-yr., S., No. 1	.15	.121/2 .	350 Picea canadensis alba, 4-yr., T., 6 to 12 ins	19
3000	Aronia arbutifolia, 1-yr., S	.06	.05	1634 3-yr., T., 6 to 12 ins	1216
1000	Azalea amoena, 1-yr., T	.25	* * *	1480 Pices pungens, 4-yr., T., 4 to 9 ins	14
1000	Azalea calendulacea, 1-yr., T	.25	***	3000 Pinus mughus, 3-yr., T., 2 to 3 ins	12
1000	Azalea mollie 1-yr., T	.25	***	15,000 Pinus strobus, 3-yr., T., 3 to 5 ins	
300	2-yr., T., 6 to 9 ins	.30		2348 Pinus sylvestris, 3-yr., T., 5 to 9 ins	10
5000 1000	3-yr., T.	.35	.30	8000 Pinus thunbergi, 3-yr., T., 6 to 12 ins	
3500	Berberis Crimson Pigmy, 2 1/4 - in. pots	.25	.221/2	200 1-yr., grafts, 12 to 18 ins	
2700	2-yr., S., 9 to 12 ins	.071/2	.061/2	300 1-yr., whips, 18 to 24 ins	
1000 7000	Berberis thunbergi atropurpurea, 2-yr., S.,	.10	.09	200 2-yr., whips, 3 to 4 ft	Ė
7000	6 to 9 ins	.06	.05	1000 Prunus maritima, light, 4-yr., T., 2 to 3 ft ,35 .3 1267 Pseudotsuga douglasi, 3-yr., T., 4 to 7 ins ,10 .0	0
4000	2-yr., S., 12 to 18 ins	.10	.09	2500 Pseudotsuga douglasi, 3-yr., T., 5 to 10 ins	191/6
6800	Celastrus scandens, 1-yr., T., 9 to 12 ins	.05	.041/2	850 Rhamnus cathartica, 1-yr., S., 6 to 9 ins	16
1400	Celtis occidentalis, 1-yr., S	.09	.08	4000 Rhodotypos kerrioides, 2-yr., T	41/6
1000	Chamaeeyparis plumosa aurea, 1-yr., T	.18	***	9000 Rosa multiflora japonica, grafting size	
1175	Clethra alnifolia rosea, 2 4 - in, pots	.25	.18	9000 Rosa multiflora Japonica, 1-yr., S., 9 to 12 ins02½ .0 2000 Rosa rugosa, 1-yr., S	41/6
1000	Cornus alba sibrica, 1-yr., C., 12 to 15 ins	.05	.041/2	1000 2-yr, S., 9 to 12 ins	71/2
1800	Cornus kousa, 1-yr., 6 to 9 ins	.051/2	.041/2	4000 2-yr., T., 15 to 18 ins	41/4
2000 1000	Cotoneaster divaricata, 1-yr., S	.10	.121/2	1350 Silver Maple, 1-yr., S., 15 to 18 ins	0
3000	Cotoneaster praecox, 1-yr., S., 4 to 8 ins	.25	.221/2	1200 2-yr., S., 12 to 18 ins	
1000	2-yr., T., 9 to 12 ins	.50	.45	700 Spiraca Anthony Waterer, 2-yr., T., 6 to 9 ins15	2
400	Berberis thunbergi atropurpurea, 2-yr., S., 6 to 9 nn. 6 to 9 nn. 6 to 9 nn. 6 to 9 nn. 6 to 12 nn. 6 to 9 nn. 6 to 12 nn. 6 t		.75	900 Spiraea froebell, 2-yr., T., 6 to 9 ins	
7000	bedded grafts Cydonia Japonica, 1-yr. T., 12 to 15 ins.  Deutzia gracilis, 2-yr. T.  Deutzia lemonici, 2-yr. T., 6 to 9 ins.  Euonymus alatus compactus, 1-yr., T.,	.041/2	.04	15 to 18 ins	31/2
700	Deutzia lemoinei, 2-yr., T., 6 to 9 ins	.121/2	.11	1000 Syringa villosa, 1-yr., S., 3 to 6 ins	31/2
	Euonymus alatus compactus, 1-yr., T., 6 to 10 ins.		.25	1909 Symphoricarpos racemosus, 1-yr., S.,  15 to 18 ins	6
1400 1200	Euonymus atropurpureus, 1-yr., S., 4 to 6 ins. Euonymus atropurpureus, 1-yr., S., 5 to 9 ins. Euonymus europaeus, 1-yr., S., 9 to 12 ins. Euonymus patens, small-leaved type, 1-yr., T. Euonymus radicans, 2-yr., TT.	.06	.03	1000 2-yr., T., 12 to 18 ins	
300	Euonymus europaeus, 1-yr., S., 9 to 12 ins	.09	.08	5000 Taxus cuspidata capitata, 1-yr., S	5
2000 1000	Euonymus patens, small-leaved type, 1-yr., T Euonymus radicans, 2-yr., TT	.15	.121/2	1500 Thuja boothi, 2-yr., T	
1000	Euonymus radicans, 2-yr., TT. Euonymus radicans carrierei, 2-yr., TT.,	9%	.30	1700 Thuja brubakeri, 2-yr., T., 6 to 12 ins	1
1000	Euonymus yedoensis, 1-yr., S., 4 to 6 ins	.06	.03	8000 Thuja occidentalis, 3-yr., T., 6 to 9 ins	K
800 200	1-yr., S., 6 to 9 ins	.07	.06	6750 Thuja occidentalis, 4-yr., T., 15 to 30 ins	
1000	Forsythia spectabilis, 1-yr., C., 12 to 15 ins	.06	.05	200 2-yr., bedded grafts, 18 to 24 ins	
3000	Halesia tetraptera, 1-yr., S	.10	.09	9000 Tsuga canadensis, 3-yr., T., 6 to 12 ins	
1000 300	Hydrangea A. G., 2-yr., T., 6 to 9 ins	.10	.09	2670 Tsuga canadensis, 4-yr., T., 8 to 16 ins	
1000	Hydrangea P. G., 1-yr., 9 to 12 ins	.15	.14	700 Viburnum dilatatum, 1-yr., C	
300 1000	Hypericum, 1-yr., S., 6 to 9 ins	.06	.05	2000 Viburnum setigerum (theiferum), 1-yr., S	23/4
1500	1-yr., S., 6 to 9 ins	.05	.04	100 Weigela amabilis, 2-yr., T., 6 to 9 ins	b
2000	1-yr., S., 9 to 12 ins	.07	.06	1000 Weigela floribunda, 1-yr., C	
2000 500	Ilex convexa (bullata), 2-yr., T., 6 to 10 ins	.40	.35	800 Viburaum Carless, transplanted seedings	
500	Euonymus radicans, earrierei, 2-yr., TT. 4 to 6 ins.  Euonymus yedoensis, 1-yr., S., 4 to 6 ins.  1-yr., S., 6 to 9 ins.  1-yr., S., 9 to 12 ins.  Forsythia suspensa, 2-yr., T., 6 to 9 ins.  Halesia tetraptera, 1-yr., S.  Halesia tetraptera, 1-yr., S.  Hadrangea A. G., 2-yr., T., 6 to 9 ins.  Hydrangea P. G., 1-yr., 9 to 12 ins.  Hydrangea P. G., 1-yr., 9 to 12 ins.  Hydrangea P. G., 2-yr., T., 6 to 9 ins.  Hydrangea P. G., 1-yr., 9 to 12 ins.  Hydrangea P. G., 1-yr., 9 to 12 ins.  Hydrangea P. G., 1-yr., 7 to 6 to 9 ins.  Hydrangea P. G., 1-yr., 7 to 6 to 10 ins.  Lyr., S., 6 to 9 ins.  1-yr., S., 6 to 9 ins.	.25	.20	Grafted material shipped in paper pots	
500	Juniperus depressa plumosa, 2-yr., T., 6 to 9 ins	*15.05	.25		
1500	Juniperus depressa piumosa, 2-yr. T.  6 to 9 ins. Juniperus glauca hetzi, 2-yr. T. 6 to 9 ins. Juniperus glauca hetzi, 1-yr. T. Juniperus pitzeriana, 2-yr. T. Juniperus pitzeriana, 1-yr. T. Juniperus pitzeriana, 2-yr. T. 6 to 9 ins. Leucothoe catesbaei, 1-yr. T. TT. 8 to 10 ins.	.30	.25	## after May 1, 1955  ### Acer dissectum atropurpureum	100
2000	Juniperus hibernica, 2-yr., T.	.20	.19	800 Acer dissectum atropurpureum 8 75.	.00
500	Juniperus pfitzeriana, 2-yr., T., 6 to 9 ins	.30	***	600 Acer palmatum atropurpureum 65.	.00
1000	Leucothoe catesbaei, 1-yr., T	.25	35	150 Chamaecyparis obtusa crippsi	.00
1200	TT., 10 to 12 ins	.50	.45	300 Chamaeeyparis obtusa gracilis compacta	00
500 700	Lindera benzoin, 1-yr., S., 6 to 9 ins	$.04\frac{1}{2}$ $.05$	.04	5000 Cornus florida rubra	.00
2000	Lonicera korolkowi, 2-yr., T., 6 to 9 ins	.05	.041/4	1750 Cryptomeria laponica lobbi compacta	00
5000	Lonicera tatarica rosea, 1-yr., C	.071/4	.061/2	500 Juniperus Hill's Pyramidalis	00
5000 2000	Lonicera zabeli, 1-yr., C	.071/2	.061/2	200 Juniperus pfitzeriana Kallay compacta	.00
500	Magnolia soulangeana, 1-yr., T., 12 to 18 ins	1.00		400 Picea moerheimi	00
100	Leucothoe catesbael, 1-yr, T.  TT., 8 to 10 ins.  TT., 10 to 12 ins. Lindera benzoin, 1-yr., S, 6 to 9 ins. Lindera benzoin, 1-yr., S, 6 to 9 ins. Lindera benzoin, 1-yr., S, 6 to 9 ins. Lonicera tatarica alba, 1-yr., C, 12 to 15 ins. Lonicera tatarica rosea, 1-yr., C. Lonicera tatarica rosea, 1-yr., C. Lonicera tatarica rosea, 1-yr., C. Lonicera tatarica rosea, 1-yr., T, 12 to 18 ins. Magnolia soulangeana, 1-yr., T, 12 to 24 ins. Magnolia soulangeana nigra, 2-yr., T, 18 to 24 ins.	1.00		200 Picea pungens kosteriana	00
1000	Mahonia aquifolium, 1-vr., 8., 4 to 6 ins	.10	.09	1000 Rhododendron Dr. H. C. Dresselhuys	00
3000	2-yr., T., 4 to 6 ins	.20	.18	2000 Thula occidentalis pyramidalis	00
380 1	Malus atrosangulnea, 1-yr., whips, 2 to 3 ft Malus hops roses, 1-yr., whips, 2 to 3 ft Malus hopehensis, 1-yr., whips, 2 to 3 ft Malus purpures eleyi, 1-yr., whips, 2 to 3 ft Malus scheldeckeri, 1-yr., whips, 2 to 3 ft Malus scheldeckeri, 1-yr., whips, 2 to 3 ft Malus scheldeckeri, 1-yr., whips, 2 to 3 ft	.35	* 0 0	500 Viburnum burkwoodi	90
340	Malus hupehensis, 1-yr., whips, 2 to 3 ft	.35	* * * *	750 Viburnum carlesi	00
220 7	dalus purpurea eleyi, 1-yr., whips, 2 to 3 ft	.35	***	300 Viburnum Juddi 60.0	00
160 7	Malus spectabilis, 1-yr., whips, 2 to 3 ft	.35	***	Prices quoted are 100 rate.	

rate, 250 at thousand rate.

### E. D. ROBINSON SALES AGENCY

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# QUALITY EVERGREENS

#### BROAD-LEAVED EVERGREENS

Abelia Grandiflora
Buxus Harlandi
Buxus Sempervirens
Cotoneaster Francheti
Cotoneaster Horizontalis
Elaeagnus Fruitlandi
Elaeagnus Simoni
Euonymus Coloratus
Euonymus Fortunei Erectus
(small leef)

(small lear)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
(heavily sheared)
Ilex Vomitoria

(well sheared)
Pride of Houston
Jesminum Floridum
Laurel Cherry

(well sheared)
Ligustrum Lucidum
(Griffing type)
Ligustrum Lucidum

(Black Wax)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra

Nandiña Domestica Photinia Serrulata

#### CONIFERS

Arborvitae, Or. Baker
Arborvitae, Or. Berckmans
(Aurea Nana)
Arborvitae, Or. Blue Cone
(very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden

Arborvitae, Or. Excelse Arborvitae, Or. Fruitland (Green Berckmans) CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Pyramidalis
Arborvitae, Occ. Nigra
(Dark Green)
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta

Juniperus Glauca Hetzi Juniperus Glauca Hetzi (staked and sheared)

Juniperus Fastigiata Juniperus Hibernica (Irish)

Juniperus Pfitzeriana Juniperus Pfitzeriana Compacta Juniper Pfitzeriana Aurea

Juniperus Sabina
Juniperus Sabina Vonehron
Juniperus Sabina Vonehron

Juniperus Sabina Vonehron (staked and sheared)

Juniperus Scopulorum Juniperus Sylvestris (Chinensis Femina)

Juniperus Virginiana Burki Juniperus Virginiana Canaerti Juniperus Virginiana Dundee

Juniperus Virginiana Dundee Juniperus Virginiana Glauca Pinus Mughus

Pinus Nigra (Austrian Pine) Pinus Sylvestris (Scotch Pine)

#### CANNED STOCK

Abelia Grandiflora
Gardenia Fortunei
Gardenia Mystery
Ilex Burfordi
Ilex Convexa
Ilex Rotundifolia
Ilex Hellori
Magnolia Grandiflore
Pyrecantha Formosana
(light)
Pyracantha Lalendi
(light)
Crape Myrtle

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### **CARTWRIGHT NURSERIES**

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will continue. Mr. Bowden's current observations will be published in a subsequent issue.

#### Native Plants

Russell Harmon, of LaBars' Rhododendron Nursery, Stroudsburg, Pa., in his talk on the landscape values of native plants, commented upon the wider selection of broadleaved material which is possible in the New York metropolitan area, but reminded listeners that a real cold winter is again possible and then to beware. Many of our native azaleas are the best for cold climate planting. The adaptation of these plants may be observed in part by studying them in their native habitats. However, ecology does not hold all of the answers, since some marsh plants will also adapt to upland soils. Some of these adaptable swamp growers are Azalea viscosa, A. vaseyi, A. arborescens, Rhodora canadensis, Kalmia angustifolia and Leucothoe catesbaei. Azalea rosea, which is similar to A. nudiflora, will stand considerable cold, as will Pieris floribunda.

Some native materials suitable for shade plantings were suggested as ground covers. They included Kalmia angustifolia, Taxus canadensis, Xanthorhiza apiifolia, Rhodora canadensis, Shortia galacifolia, native ferns, Gaylussacia brachycera, Leiophyllum buxifolium and Asarum canadense.

Mr. Harmon made a strong plea for the wider use of multistemmed small trees for their unique value in naturalistic landscape planting. With such plants the strong vertical accent of single trunks is lost. Some of the trees that might have use in this category are Amelanchier canadensis and A. laevis, Oxydendron arboreum, Carpinus caroliniana, Chionanthus virginica, Cornus alternifolia and C. florida, Magnolia glauca, Virburnum prunifolium, Fagus grandifolia and tsuga. White pines of loose, open habit, instead of the dense sheared ones, were viewed as a welcome change.

Kodachrome slides showing some of the cricads as seen in the southern Appalachians and others demonstrating the application of principles were used during the talk.

#### Plant Galls

Dr. Louis Pyenson lectured on the subject of plant galls and showed slides of many of the curious plant deformations. Each gall-forming agent is responsible for a specific kind of gall on a specific kind of plant. Since their effects are not

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vital to the general health of plants, they are often disregarded by nurserymen. However, the sales value of stock may be affected by their presence; so controls are justified. Galls are known to be caused by certain mites, aphis, midges, wasps, bacteria, fungi and nematodes.

The spruce gall aphis is controlled with nicotine sulphate or malathion applied on warm days in March or April. Oak galls are caused by about 100 kinds of wasps; controls would require more knowledge of their life cycles. Probably DDT sprays in May and June would be effective in most cases. The erinose leaf mite attacks beech and oak and is controlled by dormant oil or dinitros. Box leaf psyllids are controlled with DDT sprays in June.

Root knot nematodes require soil fumigation with chlorpicron or ethylene dibromide. Bacterial crown gall on roots of roses, rhododendrons and other plants may sometimes be excised with a sharp knife, and black knot on cherry or plum should be pruned out. The azalea leaf gall fungus is controlled with Bordeaux mixture at the time of leaf emergence. Cedar-apple galls should be controled by fungicidal spray or pruned off to prevent the rusting of apples and hawthorns. In attempting to control the plant galls it is first necessary to be able to recognize the gall and to know which type of organism is the causative agent.

#### **Estimating Landscape Costs**

Allan Dalsimer, of Landscape Associates, Glen Head, N. Y., spoke authoritatively upon the subject of estimating landscape costs. In determination of a selling price there are three factors to reckon: direct cost, indirect cost and profit, of which the indirect costs are most often underestimated. Indirect costs in landscape transactions are numerous and

#### [Continued on page 59]

POLYETHYLENE WRAP
[Concluded from page 21.]

entire mail-order nursery industry in the future for the good of our customers. At the present time, we are making these shipments under letters of permit from the Post Office Department after having shipped them a series of sample shipments previously to acquaint them with this new method of sending nursery stock through the mail. We do request that consideration be given to amending the P. L. & R. to sanction this type of shipping for the entire industry."

# FLOWERING CRAB APPLE

Atrosanguinea. Purple-bronze foliage, rosy-lavender flowers.	Per 10 Purplish	Per 100
5 to 6 feet		\$140.00
4 to 5 feet		110.00
3 to 4 feet		80.00
2 to 3 feet		50.00
4 to 5 feet, whips		80.00
3 to 4 feet, whips.		50.00
2 to 3 feet, whips		35.00
Almey (Rosy Bloom). New! Deep crimson buds open to hu- white starlike markings at base of each. Scarlet fruits. Ex	cellent tre	
cash-and-carry sales. Usually blooms same year it is plan		
5 to 6 feet	30.00	275.00
3 to 4 feet		140.00
4 to 5 feet, whips		140.00
3 to 4 feet, whips		90.00
	7100	70.00
Dolgo. White flowers, large, showy, red fruit; good for jelly.	0.50	00.00
4 to 5 feet		90.00
3 to 4 feet	6.50 4.50	60.00 40.00
2 to 3 feet	4.50	40.00
3 to 4 feet, whips	3.00	25.00
Eleyi (Eley Crab Apple). Foliage red in spring, flowers vinous	15.00 -	140.00
5 to 6 feet		100.00
3 to 4 feet	8.50	80.00
2 to 3 feet	6.50	60.00
3 to 4 feet, whips		60.00
2 to 3 feet, whips	4.50	40.00
Hopa. In the spring the expanding foliage is bronzy-red but, fully developed the whole tree bursts into bloom, being co the most magnificent, fragrant, pink flowers. 5 to 6 fact	mpletely	covered with
fully developed the whole tree bursts into bloom, being co the most magnificent, fragrant, pink flowers.  5 to 6 feet. 4 to 5 feet 2 to 3 feet 4 to 5 feet, whips. 3 to 4 feet, whips.	12.00 9.00 4.50 7.00 4.50	110.00 85.00 40.00 65.00 40.00
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# THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"
OTTAWA, KAN.

Per 100 Per 1000

# 20 N

MUSSER - - Spring

50 at 100 rate, 500 at 1000 rate

Per 100 Per 1000

#### . SCOTCH PINE-Riga Strain

9-WF.	S	(2-0).	2	to	4	ins	. \$3.00	815.00
		(3-0)						27.50

#### . SPECIAL STRAIN SCOTCH PINE

Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.
2-yr., S., (2-0), 4 to 8 ins...\$5.00 \$25.00 Above stock can be used for direct field

Above stock can be used for direct field planting.

3-yr., S., (3-0), 8 to 12 ins. \$12.00 \$60.00

3-yr., T., (2-1), 5 to 10 ins. 15.00 75.00

4-yr., T., (2-2), 6 to 12 ins. 20.00 150.00

6-yr., TT., 16 to 20 ins. ... \$1.00 Each

6-yr., TT., 18 to 24 ins. ... 1.50 Each

Sold in lots of 5 or more. Individually packed with ball of peat moss.

#### WHITE PINE

#### AUSTRIAN PINE

Good timber species. A beautiful, dark green, long-needled ornamental and Christmas tree, grown from selected seed from the Austrian Alpine region.

2-yr. S., (2-0), 2 to 4 ins. \$4.00 \$20.00

2-yr. S., (2-0), 6 to 12 ins. 7.00 \$5.00

2-yr. S., (3-0), 6 to 12 ins. 7.00 \$5.00

3-yr. S., (3-0), 6 to 14 ins. 10.00 \$5.00

3-yr. S., (3-0), 8 to 14 ins. 10.00 \$5.00

Two last items above are excellent size for direct field planting.

3-yr., T., (2-1) 5 to 10 ins. \$15.00 \$75.00

6-yr., TT., 12 to 18 ins. \$1.00 Each

7-yr., TT., 18 to 24 ins. 1.50 Each

8-yr., TT., 18 to 24 ins. 1.50 Each \*Sold in lots of 5 or more. Individually packed with ball of peat moss. Use this for an early ornamental or windbreak.

#### . AMERICAN RED PINE

Excellent timber and Christmas tree. Seed selected by our own men from out-standing specimen trees in finest Amerstanding specimen trees in finest American virgin forests. 2-yr., S., (2-9), 3 to 5 ins. \$ 5.99 \$25.00 3-yr., S., (3-9), 8 to 12 ins. \$ 9.09 \$45.00 3-yr., S., (3-9), 8 to 12 ins. \$ 9.00 \$45.00 Field planting size. 3-yr., T., (2-1), 4 to 8 ins. 12.00 60.00 4-yr., T., (2-2), 10 to 16 ins. 25.00 6-yr., TT., 18 to 18 ins. 75.00 5-yr., TT., 18 to 24 ins. \$1.00 Each \*8-yr., TT., 24 to 32 ins. \$1.00 Each \*8-yr., TT., 24 to 32 ins. I.50 Each \*8-yr., TT., 24 to 32 ins. Individually inter of 5 or more. Individually \*Sold in lots of 5 or more. Individually packed with ball of peat moss. Use this for an early ornamental or windbreak.

#### . MUGHO PINE\_True Dwarf

Comp	act,	10	W-	gr	OW	ing	Or	namental	Pine.
3-yr.,	S.,	(3-	0),	3	to	E.	ins.	.\$ 5.00	\$25.00
3-yr.,	S.,	(3-	0),	4	to	6	ins.	7.00	35.00
4-yr.,	S.,	(4-	0),	6	to	10	ins.	9.00	45.00
4-yr.,	T.,	(3-	1).	4	to	7	ins.	14.00	65.00
5-yr.,	T.,	(3-	2).	6	to	12	ins.	16.00	80.00

#### . MUSSER EXCLUSIVE NORWAY SPRUCE

Grown from selected trees. Exceptionally fast-growing, straight-stemmed stock makes this strain especially desirable for Christmas trees, ornamentals and timber. 2-yr., S., (2-0), 5 to 10 ins.\$ 7.00 3-yr., S., (3-0), 10 to 14 ins. 10.00 3-yr., T., (2-1), 6 to 12 ins. 14.00 5-yr., T., (3-2), 10 to 16 ins. 25.00 \$35.00  $50.00 \\ 65.00$ 

#### . HORWAY SPRUCE

\$15,00 25,00 35,00 60,00 1.50 Each Individually

Per 100 Per 1000

#### WHITE SPRUCE

Fast-growing strain. Similar to Norway Spruce except for its lighter color and slower growth rate. 2-yr., S., (2-0), 4 to 8 ins. \$5.00 \$25.00 3-yr., S., (3-0), 8 to 14 ins. 10.00 4-yr., T. (2-2), 10 to 16 ins. 20.00 100.00

#### BLACK HILLS SPRUCE

#### • SERBIAN SPRUCE-Picea omorika

Valuable ornamental. Tall, symmetrical habit of growth, with very narrow branch spread. Needles ½ to ¾ in. long. Glossy 2-yr., S., (2-0), 2 to 4 ins...\$ 8.00 2-yr., S., (2-0), 4 to 8 ins... 12.00

#### ENGELMANN BLUE SPRUCE

2-yr., S., (2-0), 2 to 4 ins....\$5.00 \$25.00

#### COLORADO BLUE SPRUCE

COLORADO BLUE SPRUCE

Excellent stock, finest in the country. One of the finest for ornamental and Christmas tree use. Sturdy and compact in form; straight stems. Range in color from slightly blue-green to marvelous blue. The seed has been collected at very blue, the seed has been collected at very blue. The seed has been collected at very least characteristics.

2-yr. S. (2-0), 2 to 4 ins. \$5.00 \$25.00 \$35.00 \$2.9yr. S. (2-0), 3 to 6 ins. 7.00 \$35.00 \$4.9yr. S. (2-1), 4 to 7 ins. 15.00 \$75.00 \$4.9yr. T. (2-1), 4 to 7 ins. 15.00 \$75.00 \$4.9yr. T. (2-2), 8 to 10 ins. 30.00 \$150.00 \$7.9yr. TT. 10 to 15 ins. \$1.00 Each \$95.01 in lots of 5 or more. Individually packed with ball of peat moss.

#### . CANADIAN HEMLOCK

Lacy, graceful growing habit. Can be sheared to any size. Hedges, specimen ornamentals. Full shade or full sunlight. 2-yr. S. (2-0), 3 to 6 ins. \$11.00 \$55.00 3-yr. S. (3-0), 6 to 12 ins. 17.00 \$5.00 5-yr. T. (3-2), 8 to 12 ins. 50.00 \$7-yr. TT. 15 to 20 ins. .....\$1.50 Each \$9.00 in tots of 5 or more. Individually packed with ball of peat moss.

#### BALSAM FIR

Extensively used for Christmas trees and ornamentals.

2-yr. S. (3-0), 3 to 5 ins. \$8.00 \$40.00 \$-yr. T. (3-2), 5 to 10 ins. 20,00 \$-yr. T. (3-2), 5 to 10 ins. 20,00 Each \*8-yr. TT. 12 to 18 ins. \$1.00 Each \*8-yr. TT. 18 to 24 ins. 1.50 Each \*1.50 Each \*1.50 Each \*1.50 Each \*1.50 Each \*1.50 Each

#### . DOUGLAS FIR

Hardy Rocky Mountain type. Superior ornamental and Christmas tree. 2-yr. S. (2-0), 4 to 8 ins. 8 8.00 \$40,00 3-yr. S. (3-0), 8 to 12 ins. 14,00 70,00 4-yr. T. (2-2), 8 to 10 ins. 20,00

#### CONCOLOR FIR

Excellent ornamental. Silver trunk and soft silver foliage. One of the best Christ-mas trees. Holds needles best of any short-needled tree. 2-yr., S., (2-0), 5 to 10 ins. \$12.00 \$60.00 3-yr., S., (3-0), 8 to 14 ins., 17.00 \$5.00

#### . VEITCHI FIR

Fine ornamental. One of the slow-growing Firs. Needles are dark green, silver on the underside. An excellent plant for table-size Christmas tree. 3-yr. S. (3-9), 3 to 6 ins. . 316,00 \$86,00

#### BLUE ATLAS CEDAR

Cedrus atlantica glauca.
Grown from seed. Silvery to light green needles, pyramidal form. Similar in appearance to Japanese Larch but does not lose its needles in fall: ins.\$15.00 \$100.00 3.vr. S. (2-0), 6 to 12 ins.\$15.00 \$100.00 3.vr. S. (3-0), 12 to 24 ins. \$0.00

#### AMERICAN ARBORVITAE

Popular for hedges and ornamentals.
3-yr. S. (3-0), 5 to 10 ins. \$10.00
4-yr. T. (3-1), 8 to 14 ins. 20.00
\*6-yr. T. 20 to 24 ins. . . . \$1.75 Each
\*Sold in lots of 5 or more. Individually packed with ball of peat moss. \$1.75 Each

#### ORIENTAL ARBORVITAE-Biota orientalis

Grown from seed. A very good ornamental with pyramidal form and light green foliage. Also used as understock for grafting Biota varieties.

2-yr., S., (2-0), 5 to 10 ins.\$8.00 \$40.00 2-yr., S., (2-0), 10 to 15 ins. \$12.00 \$60.00

#### . GLOBE ARBORVITAE-Transplants

Plants started from rooted cuttings as-

#### PYRAMIDAL ARBORVITAE-Transplants

All plants started from rooted cuttings to All plants started from rooted cuttings to assure true strains.

Compacts, light green
1-yr. T., 4 to 6 ins....\$25.00 \$200.00
2-yr. T., 10 to 16 ins..... 40.00 \$350.00
Extra-heavy stems. Very nice plants.

\*TT. field-grown, 18 to 24 ins., \$2.25 Each
\*Sold in lots of 5 or more. Individually packed with ball of peat moss. 

#### JAPANESE BLACK PINE-Pinus thunbergi

Light green needles, 4½ ins. long. Hardy, valuable for use in exposed conditions along the seashore, Very fast growing, 2-yr., S., (2-0), 2 to 4 ins., \$7.00 \$33.00 3.yr., S., (3-0), 7 to 12 ins., 10.00 \$50.00

#### . PONDEROSA PINE

Hardy, fast-growing Western Yellow Pine Z-yr., S., (2-0), 2 to 4 ins...\$4.00 \$20.00 3-yr., S., (3-0), 5 to 10 ins... 6.00 30.00

#### • JUNIPER, PFITZER-Pfitzeriana

Green. Slow-growing. 1-yr., T., 4 to 6 ins.......\$10.00

#### . JUNIPER, BLUE PFITZER-Hetzi glauca

This improved Juniper with its irregular This improved Juniper with its irregular spreading habit, fast growth and bluish color can be used extensively in land-scape work. Preferred by many for foundation plantings.

1-yr. T. 6 to 8 ins. .... \$25.06 \$290.00

2-yr. T. 10 to 15 ins. .... 65.06

3-yr. T. 10 to 15 ins. ... 65.06

3-yr. T. 20 to 15 i

ASK FOR COMPLETE CATALOG AND WHOLESALE PLANTING LISTS. ALSO FAMOUS CHRISTMAS TREE GROWERS GUIDE.

All stock grown from Selected Seeds and Cuttings CAREFUL GRADING and PACKING

ORDER NOW **WRITE or PHONE 5-5686** 



# TREES a Year!

### Wholesale Planting List=

Per 100 Per 1000

. JUNIPER, ANDORRA-Creeping Variety cellent for terraces.

. JUNIPER, WAUKEGAN-Green

040

. JUNIPER. WAUKEGAN-Blue

Same growing habit as the green type. 1-yr., T., 6 to 10 ins........\$30.00

. JUNIPER, UPRIGHT-Virginiana

3-yr., S., (3-0), 8 to 18 ins...\$8,00 \*TT., field-grown, 24 to 36 ins. \$2,00 Each \*Sold in lots of 5 or more. Individually packed with ball of peat moss.

. JAPANESE YEW

(Taxus cuspidata capitata) Upright, pyramidal Extra-nice plants; exom seed. Cellent, fibrous roots.

2-yr., S., (2-0), 4 to 8 ins. \$15,00 \$125,00

3-yr., S., (3-0), 8 to 12 ins. 40,00

Excellent plants, branched, with heavy 

• JAPANESE YEW-Transplants

True strains from rooted cuttings.

Taxus cuspidata, spreading
1-yr. T., 5 to 6 ins. . . \$20.00 \$150.00
2-yr. T., 6 to 8 ins. . 30.00 250.00
2-yr. T., 8 to 12 ins. . 45.00

Taxus hicksi, upright
1-yr. T., 5 to 7 ins. . . . . 20.00 175.00

Taxus hunnewellians, excellent spreader
Very fine needles. 

JAPANESE HOLLY Excellent evergreen shrub and hedge.

ILEX CRENATA

2-yr., S., 3 to 6 ins.....\$20.00 \$100.00 ILEX CRENATA CONVEXA

True strains from cuttings.
1-yr, T, 5 to 8 ins.....\$25.00 \$200.00
\*2-yr, T, 8 to 10 ins.....\$0.00
Fine, nicely branched plants.
\*10 may be ordered at 100 rate.

ILEX ROTUNDIFOLIA-Round-leaved

Grown from cuttings. 1-yr., T., 5 to 8 ins.......\$25.00 \$200.00

• ILEX GLABRA-Inkberry Holly

1-yr., T., 5 to 8 ins.,.........\$25.00

Per 100 Per 1000

· BARBERRY-Red

Unusually good red color. Excellent hedge plants. Red leaves in summer; red berries in fall and winter.
2-yr., S. (2-0), 4 to 10 ins. \$10,00 \$50,00 \$3-yr., S. (3-0), 8 to 15 ins. 16,00 \$80,00

. BARBERRY Green

2-yr., S., (2-0), 8 to 12 ins. . \$8,00 \$40,00

JAPANESE ANDROMEDA-Pieris japonica An excellent, broad-leaved evergreen. Young foliage is usually a rich bronze in spring. later turning a light green. Creamy-white flowers in pendulous clus-ters to 5 ins. long. Can be grown in shade

cers to 5 ims. long. Can be grown in shade or full sun.
"3-yr, TT., 10 to 12 ins......\$1,75 Each "Sold in lots of 5 or more. Individually paper wrapped. Very nicely branched, semifinished ornamental size.

. RHODODENDRON HYBRID-Transplants

Grown from seed from red-flowering plants. \$1.75 Each Mass of roots, individually paper wrapped. \*Sold in lots of 5 or more.

· PIN OAK-Quercus palustris

Forms a symmetrical, pyramidal head with long pendulous branches. The foli-age is deeply cut and assumes a brilliant red autumn color. Because of rapid growth, it is much used for avenues and lawn specimens, 2-yr., S., (2-0), 15 to 20 ins. \$20.00

NORWAY MAPLE-Acer platanoides

A large handsome tree with broad, rounded head. The leaves are rich green and remain until late fall. Extensively used for street and shade tree planting.

1-yr. S. (1-0). 6 to 10 ins. 8.00 \$40.00 2-yr. S. (2-0). 10 to 15 ins. 14.00 70.00 3-yr. S. (3-0).20 to 36 ins. 75.00

2-yr., S., (2-0), 6 to 12 ins. \$10.00 \$50.00

Small red-leaved Maple used as an orna-1-yr., S., (1-0), 3 to 5 ins. . . \$10,00 \$50,00

. RED OAK-Quercus borealis

Hardy northern Oak. Hardy northern Oak,
A rapid-growing tree forming a large,
round head. The foliage becomes dark
red in autumn.
1-yr., S. (1-0), 6 to 10 ins.\$10.00
2-yr., S. (2-0), 10 to 18 ins. \$14.00
70.00

TULIP POPLAR-Liriodendron tulipfera

One of the largest and most valuable timber and ornamental trees. Handsome, glossy, fiddle-shaped leaves, and in spring, bell-shaped greenish-yellow flowers, marked with an orange base.

2-yr., S., (2-0), 18 to 30 ins.\$16.00 \$50.00

• WHITE BIRCH—Betula papyrifera

· LILACS-Syringa vulgaris

50 at 100 rate, 500 at 1000 rate

Per 100 Per 1000

• FLOWERING QUINCE-Cydonia japonica

Long a favorite ornamental because of its pink to scarlet flowers, which appear be-fore the leaves. Sometimes called Burn-ing Bush. Attains 10 to 12-ft, height. 2-yr., S. (2-0), 8 to 18 ins. \$29.00 \$100.00

. GOLDEN-RAIN TREE-Koelreuteria panicu-

3-yr., S., (3-0), 2 to 3 ft....\$50.00

• SWEET SHRUB-Calycanthus floridus

A sweet-scented, old-time favorite, be-loved for its dark reddish-brown, spicily fragrant flowers. Will grow in shaded or open areas to 6 ft. or more. 3-yr., S. (3-0), 18 to 24 ins. 330,00

WHITE DOGWOOD-Cornus florida

One of the most beautiful of small trees. Handsome in early spring with its white-petaled flowers and again in fall with bright red fruit and gorgeous leaf color-

. GOLDEN CHAIN TREE-Laburnum anagy-

Showy yellow flowers, borne in long drooping clusters. These rank among the most beautiful of flowering trees. Grows to about 30 ft.
3-yr., S. (3-0), 18 to 24 ins.\$30.00 ....

ROSA MULTIFLORA

For living fence and wildlife shelter and Graded 3 mm, and up, 10 to 18 ins. .....\$10.00 \$50.00

GROUND COVER

• ENGLISH IVY-Evergreen Ivy

Rooted Cuttings, 5 to 9 ins. \$15.00 3-yr., T., 8 to 15 ins....... 25.00 3 to 5 runners to each plant.

• PACHYSANDRA TERMINALIS—Spurge

1-yr., plants, 2 to 4 ins.... \$ 9,00 \$80,00 2-yr., heavy, T., 3 to 5 ins., 25,00

• MYRTLE-Vinca minor, Periwinkle

Medium lining-out Grade ... \$8.00 \$35.00

Note: S. stands for Seedlings T. stands for Transplants

The figures such as (2-0), (2-1) or (2-2-1) indicate the number of years the trees have been in the seedbeds and the transplant beds.

MUSSER FORESTS, BOX 16B,

INDIANA. PENNA.

# Landscape Sales Critic At Virginia School

The annual school for nurserymen, held at the Virginia Polytechnic Institute, Blacksburg, January 3 to 15, was a most successful one. With the aim of training the individual, the registrations for the school were limited to the number which could be handled in one laboratory room.

This school was arranged and directed by Prof. Albert S. Beecher, landscape architect at the institute. While the programs for each of the two weeks were closely related, those who attended for one week were able to complete their assignments.

Discussions of plant propagation were led by Prof. van de Werken, of the horticultural staff. He also gave demonstrations on lettering, on freehand sketching and on the use of crayons and water colors for tinting landscape plans.

Dr. S. S. Obenshain, head of the soils section at V. P. I., used 4-foot profiles of actual soil types occurring in three large areas of the state in a lecture to help the nurserymen understand the role played by hardpan

and tight subsoils in the life and growth of ornamental plants.

A talk on nurserymen's botany was made by Dr. W. P. Judkins, head of the department of horticulture at V. P. I.

#### Criticizes Sales Approach

As in former years, problems were assigned to individuals with a limit on time for their completion. Since most of those present are selling landscape jobs, special sessions were arranged this year for sales clinics. Outline plot plans and plans showing various elevations of buildings were prepared in advance. After a visit to the property and a limited time for working out a solution, individuals were asked to sell the job to the owner or to someone acting in his place. This was followed each time by a discussion of the salesman's presentation.

Some of the criticisms which were recorded by Professor Beecher follow:

Plunged immediately into sales talk without first carrying on a conversation with owners to get them into a proper mood.

Lacked warmth and displayed lack of enthusiasm over plan prepared, or the client's possibilities for developing a beautifully landscaped home.

Spent too much time talking about individual plants without first giving the customer a broad picture of how his proposed landscaping will give the home a completed look, year-round beauty, privacy, etc.

Failed to get the customer to talk or get excited about the proposed landscaping.

Displayed timidity and indecision.

Neglected to point out the strong points of the nursery company that he represents or the type of job that his company stands for.

Failed to use any visual aids such as quick sketches, pictures of plant material or before and after pictures of other landscape jobs completed to help support his sales talk.

Salesman directed attention exclusively toward the husband and failed to divide his attention equally between the husband and wife.

Did not ask for the order or press for a definite return appointment when the owner said, "I would like to think it over a little more."

Gave a lump sum price for the job,

# PACKAGED ROSES

GROWN RIGHT - DUG RIGHT - STORED RIGHT - PACKED RIGHT SHIPPED WHEN YOU WANT THEM

Expertly grown, these 2-year-old, field-grown bushes are scientifically wrapped and waxed to retain full vigor. Colored label and planting instructions on each package. Plants are held under ideal storage conditions for shipment now or later. To keep fresh stock on your counter, order one or more collections to be shipped every week or every month.

Available in collections of 100 bushes, 25 varieties or more included, in a wide range of colors. 75 per cent are Everblooming Hybrid Teas; 25 per cent are Climbers.

Colors assorted as follows: 35 per cent Red varieties, 15 per cent Pink varieties, 15 per cent White varieties, 20 per cent Yellow varieties, 15 per cent Two-tone varieties.

These collections have proved themselves time and time again! Grading is according to standards established by the American Association of Nurserymen. The low prices are the results of mass production and economic distribution and will enable you to meet, profitably, any legitimate competition.

#### COLLECTION "A"

No. 1 Grade \$65.00 per collection

#### COLLECTION "B"

100 Assorted Roses No. 11/2 Grade \$55.00 per collection

#### COLLECTION "C"

100 Assorted Roses No. 2 Grade \$45.00 per collection

Subject to prior sale. F.O.B. Farmington.

TERMS: NET CASH.

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# PACKAGED BULBS

EXPERTLY GROWN — CAREFULLY PACKED — ECONOMICALLY PRICED - COLORED LABEL - PLANTING INSTRUCTIONS ON EACH PACKAGE.

The eye-catching pictures, simple planting directions and the extremely low price make these self-selling, space-saving packages a fast-moving, highly profitable line to handle.

Your low-cost price is actually the 1,000 rate on bulk bulbs! No charge is made for packaging! This low price is the result of mass production in packing and distributing—so please do not ask us to break cases. All bulbs are blooming size.

Samples (I each of the 8 items) will, however, gladly be sent on receipt of \$3.50. Shipped postpaid.

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and the desired space
S CO GO WALL PRINCOM

Case	Bulbs	
contains	Variety per pkg.	
10 pkgs.	ABYSSINIAN GLADIOLUS 20	
10 pkgs.		
10 pkgs.		
	GLADIOLUS (Rainbow Mixture) 50	
10 pkgs.		
10 pkgs.		
	RANUNCULI (Asiatic Rose)	
	TIGRIDIAS (Shellflower)	
80 pkgs.	TOTAL1770 bul	bs

YOUR COST: \$27.00 per case (1770 bulbs)

\*SUGGESTED RETAIL at \$1.00 per pkg.....\$80.00 YOUR COST at 333/4c per pkg..... 27.00 YOUR PROFIT PER CASE ..... 53.00

\*Retail selling price is merely suggested. Packages can be sold for less if desired and still will show a substantial margin of profit.



#### **DUTCH PEONIES**

1 3 to 5-eye Root per Canister.

Clean, healthy single-crown roots, up to size and true to color. Packed 100 Canisters per case, as follows:

40 Red. 30 Pink. 30 White.

\$40.00 per case (100 canisters). 22.50 per half case (50 canisters).



#### BLEEDING HEARTS

I 3 to 5-eye Root per Canister.

True, Old-Fashioned Heart-Shaped Type. Plump, healthy roots, well eyed. Will bloom this Spring. Packed 100 canisters per case.

\$40.00 per case (100 canisters) 22.50 per half case (50 canisters)



#### **DAHLIA ROOTS**

I Large Root per Canister.

Large-Flowering Decorative Type. Fine large roots careful v packed Colors: Bright Red, Yellow, Pink, Lavender, Bronze, White, Deep Violet, Dark Red. Packed 100 canisters per case in a well-balanced assortment of colors.

\$25.00 per case (100 canisters)



#### TUBEROUS-ROOTED BEGONIAS

Double, Camellia Type

Belgian-grown. Each package contains 4 different colors, and the 4 varieties are shown in color. Planting instructions on the back. A very attractive and very popular seller. Prices:

50c each in lots of 20 45c each in lots of 100

GROWERS EXCHANGE, INC.

P. O. Box 398 FARMINGTON, MICH. Phone: Farmington 1890

# LINING-OUT STOCK

	Each per 100	Each per 1000
JUNIPERUS PFITZERIANA, silvery-blue str	ain	
1000 2-yr., X, 8 to 10 ins., field beds		\$0.32 .40
ILEX CRENATA (Japanese Holly)		
50,000 2-yr., S., 4 to 6 ins	.10	.05
8000 3-yr., S., XX, 6 to 9 ins., field beds	.30	.25
ILEX CONVEXA (Bullata)		
1000 I-yr., X, flats, 4 to 6 ins	.15	.14
15,000 2-yr., X, 6 to 9 ins., field beds	.25	.20
5000 3-yr., XX, 8 to 12 ins., field beds	.35	.30
PYRACANTHA COCCINEA LALANDI		
3000 1-yr., S., 4 to 8 ins	.10	.08
4000 2-yr., S., X, 8 to 10 ins. deep flats	.20	.18
TAXUS CUSPIDATA, spreading		
1000 3-yr., X, 8 to 10 ins., field beds	.35	.30
AZALEAS, hardy, deciduous		
4500 Mollis, 2-yr., S., X, 4 to 6 ins., flats	.18	.16
700 Nudiflora, 2-yr., S., X, 3 to 6 ins., flats	.16	.14
1000 Calendulacea, 2-yr., S., X, 4 to 6 ins., flats	.16	.14
2000 Vaseyi, 2-yr., S., X. 3 to 4 ins., flats	.20	.18
700 Schlippenbachi, 2-yr., S., X, 4 to 6 ins., flats	.25	.22
EUONYMUS ALATUS		
200 3-yr., XX, 12 to 18 ins., field beds	.30	**
CORNUS FLORIDA (White-flowering Dogwood	od)	
1600 2-yr., S., X, 18 to 24 ins., field beds	.30	.25
400 2-yr., S., X, 24 to 30 ins., field beds	.40	.35

All above listed stock for shipment anywhere in the United States.

TERMS: Cash with order, 2% discount. Free packing. A total of 5% discount on orders of \$300.00 or more. 50 of each variety and size at 100 rate; 300 at 1000 rate.

#### BROOKFIELD GARDENS

U. S. Rt. 46

DELAWARE, N. J.

but failed to point out all the services the customer would receive.

Smoked a cigarette while pointing

Two periods were devoted to talks by Prof. A. G. Smith, Jr., on the subject, "Why Plants Die." These led to much discussion by the nurserymen. It was agreed that an ornamental plant is "dead" when it loses the color, texture or form for which it was used. Professor Smith also led discussions on pruning, lawns and identification of plants.

The use of various types of labels, which were supplied by dealers and manufacturers, was demonstrated by A. L. Eiser, Jr., instructor in horti-culture at V. P. I.

On two nights during the school, the nurserymen were dinner guests at the home of Prof. and Mrs. A. G. Smith, Jr. A. G. Smith, Jr.

#### WHITE AWARDED MEDAL

The George Robert White medal of honor for 1954 was awarded by the Massachusetts Horticultural Society to Dr. Richard P. White, executive secretary of the American Association of Nurserymen, Washington, D. C. "Dr. White has rendered outstanding service to the American nursery trade in pioneering a progressive program for professional horticulture in America," reads the society's announcement of the award. "He has striven for high standards in nursery practices and has been an outspoken opponent of false advertising. His efforts in advancing the 'Plant America' program have met with outstanding success in all parts of the country, especially in landscaping industrial plants."

The Jackson Dawson medal was awarded to Paul Vossberg, propagator of the Westbury Rose Co., Westbury, L. I., N. Y. Mr. Vossberg has made notable advances in the propagation of azaleas, rhododendrons and other choice woody plants.

The Thomas Roland medal given for exceptional skill in horticulture was awarded to Peter Arnott, of Chestnut Hill, Mass., superintendent of the estate of Mrs. Edwin S. Webster, for 45 years.

CERTIFICATE of incorporation was filed in January for Vanderbrook Nurseries, Inc., Manchester, Conn., the incorporators being Louis, Bruce and Rose W. Vanderbrook. Capital was listed at \$200,000, consisting of 2,000 shares of common stock at par value of \$100 each, with starting capital of \$175,000.

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# BIRD'S handy TOM THUMB FLATS bring customers back again and again



It's easy to see why. Easy to carry . . . No dirt, no mess in the car. Enthusiastic nurserymen report customers buy more potted annuals when they can be transported in simple efficient Tom Thumb Flats.

Customers come back too! They like to get their annuals in this attractive "package". But, also, they are reminded to come back through the Nursery Name dramatically imprinted on the Tom Thumb Flat.

Tom Thumb Flats are constructed of heavy waterproof fibre resinous material. Use with either of Bird's famous plant bands: Vita-Band "10" or the disintegrating Vita-Band "D".

The most economical way to sell potted annuals is in dozen lots. Grow your plants — in Vita-Bands — in bench or flat. Grade them for size and appearance. Then transfer them, by grade, to Tom Thumb Flats. With this method, potted plants sell easier at premium prices. Build sales and repeat business with easier-to-sell potted plants in this neat package. Order from supplier's catalog, or write direct for information and name of nearest distributor to Bird & Son, inc., Dept. AN-2A, East Walpole, Massachusetts.

Combination 1 M Flats 12M Vita-Band Per 1000 Sets	Combination 1 M Flats 12M Vita-Band 10 Per 1000 Sets	Sold in Units of 250 Sets	Tom Thumb Flats
Size #1 Size #2	Size #1 Size #2	Per Thousand	Size #1 Size #2
\$103.70 \$113.60	\$86.45 \$95.65		\$44.70 \$49.60





VITA-BANDS . TOM THUMB FLATS VITA-POTS . RED POTS

# **New England Meetings**

#### MASSACHUSETTS MEETING

At the 46th annual meeting of the Massachusetts Nurserymen's Association, January 18, at the Hotel Kenmore, Boston, Mass., the following officers were re-elected: President, Harold C. Atwater; vice-president, Frank T. White; treasurer, Charles A. Godin; secretary, George M. Fellows, and directors, Mrs. Helen Anderson and Harold Stevenson. Heinrich Rohrbach was also elected director.

The treasurer's report, read by Charles A. Godin, showed a balance of \$1,553.07, including war bonds which matured in January. Kip Corliss read the report of the membership committee, showing a small gain in membership over the preceding

Dr. John Havis, director of the Waltham field station, spoke on "Activities and Functions at Waltham Station," assuring cooperation with nurserymen by the University of Massachusetts.

Dr. Robert Ticknor, assistant professor of nursery culture at Waltham station, enlightened members of the Massachusetts association with slide pictures and information on projects being carried on under his direction.

"Activities and Benefits Derived from Association with Organized Association" was the topic of a discussion by Curtis Porterfield, administrative assistant of the A. A. N., who opened the afternoon session. Heinrich Rohrbach entertained the group with pictures and an interesting talk on his recent trip through Europe.

At the afternoon business session, vote was in favor of recommendations by the president in his annual report as follows: Continued awards at the University of Massachusetts flower show; election of a committee to work with the university to arrange a short course at the college; election of a committee on research and extension, especially at the Waltham field station.

Other new business included passing motions to approve and offer full support of the A. A. N. program against unfair advertising and other unfair business practices; to revise the bylaws as recommended by the directors and to appropriate \$100 for continued membership in the Boston Better Business Bureau.

> George M. Fellows, Secretary.

#### CONNECTICUT COURSE

The third annual Connecticut nurserymen's short course, held at the University of Connecticut, Storrs, January 26 and 27, drew an attendance 60 per cent above last vear's, with over 200 persons in attendance. Of these, about 150 were active nurserymen, and the others were students, faculty members, park superintendents and others interested in increasing their knowledge of our industry. In attendance were nurserymen from Connecticut, Massachusetts, Rhode Island, New Hampshire, Maine, New York, New Jersey and Pennsylvania.

The theme of the course was field planting and the growing on to maturity of nursery stock.

The committee from the association and the cooperating faculty of the university have endeavored to keep a balance between technical and practical speakers. A list of the speakers shows how well they

succeeded in doing just that this

Speakers on the first day are listed in the order in which they appeared: Dr. W. H. Camp, head of the department of botany, University of Connecticut; George Harris, Princeton Nurseries, Princeton, N. J.; Ioel Barnes, Barnes Bros. Nursery Co., Yalesville, Conn.; Louis Vanderbrook, Vanderbrook Nurseries, Inc., Manchester, Conn.; Case Hoogen-doorn, C. Hoogendoorn Nurseries, Newport, R. I., and Dr. L. C. Chadwick, Ohio State University, Colum-

Speakers on the second day were: Dr. M. A. McKenzie, plant pathologist, University of Massachusetts, Amherst; Dr. William Becker, entomologist, University of Massachusetts; Dr. L. C. Chadwick, and Russell Harmon, LaBar's Rhododendron Nurseries, Stroudsburg, Pa.

Each of these speakers presented a well prepared talk, which was followed by a question period.

Plans are already going forward to present the next short course January 25 and 26, 1956. E. W. Whitham

### **OUEEN O' the LAKES**

(Dark Velvety Red) and 30 other fragrant



SUB-ZERO HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement ex-

pense.
Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

Also 20 Yellow and Orange Climbers

Also Florabundas and Grandifloras. Also many varieties of our new race of everblooming climbers which we call Everblooming Pillars. These bloom the first year like Hybrid Teas and on all stems and canes the year they grow; large Hybrid Tea blooms in

These Roses have been honored by some of the leading Distinguished Service Medals. Write for trade prices to

BROWNELL ROSES

LITTLE COMPTON, R. I.



### CLEARANCE SALE CHINESE CHESTNUT TREES

About 8,000 trees. Approximately 50 per cent 3 to 5 ft.; 50 per cent 5 to 8 ft. Offered row run.

40c each in 1,000 lots.

Power dug and bunched F.O.B. MUST MOVE BY APRIL 1, 1955. First come, first served. Ready for shipment after November 10.

**BOUNTIFUL RIDGE NURSERIES** PRINCESS ANNE, MD.

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HERE THOSE SAT LAST!

The most amazing lawn food ever made...

and the easiest to sell!



#### **WON'T BURN**

when used in recommended amounts

#### ONE FEEDING

lasts all season

#### **ALL NUTRIENTS**

needed from the soil to nourish fine grass

> Vigore is a registered trade-mark of Swift & Company Copyright 1955, Swift & Company

#### **Unmatched Advertising Support**

National Magazines—full color pages in LIFE, POST, BETTER HOMES, AMERICAN HOME, HOUSE BEAUTIFUL, SUNSET, HOUSE AND GARDEN, HOUSEHOLD, starting in February to catch spring sales.

Gardening Magazines—the full story told time and again to amateur gardeners in FLOWER GROWER, POPULAR GARDENING, HORTICULTURE.

Newspapers—a series of 800-line ads in larger cities the country over.

Outdoor Billboards—in heavy traffic locations bringing the story to millions.

In these three points you have the greatest selling story in the history of lawn foods...and a product that took years of research to develop.

You can recommend new Golden Vigoro complete lawn food unconditionally. It's a miracle of plant food research—made a new way (Pat. No. 2618546, No. 2618547, others pending). So amazing is its performance you can count on it for repeat sales... and the good profit you deserve year after year. Get the full story from your Swift man now... stock up for the spring season!

#### SWIFT & COMPANY

Your best sellers in gardening supplies—

The **VIGORO** Family of Gardening Aids

# CORNUS

### (White-flowering Dogwood)

branched.	LUMPS —	Multiple	stems,	broad tops	and heavily Each
3 to 4 ft	B&B				\$ 2.50
CINICIE TOLIN	K. AND N	MEDIUM (	CLUMADO	S ITwo trunks	lonom no
					'
3 to 4 ft.,	B&B				2.00
3 to 4 ft., 4 to 5 ft.,	B&B				2.00
3 to 4 ft., 4 to 5 ft., 5 to 6 ft.,	B&B B&B				2.00 2.75 3.50
3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.,	B&B				2.00 2.75 3.50 4.75
3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft., 7 to 8 ft.,	B&B				2.00 2.75 3.50 4.75 6.75
3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft., 7 to 8 ft.,	B&B				2.00 2.75 3.50 4.75 6.75

#### EXTRA-LARGE SPECIMENS—All extra full.

3-in.	trunk,	10	to	12	ft.	tall	Х	6	to	8	ft.	wide	 35.00
4-in.	trunk,	10	to	12	ft.	tall	X	6	to	10	ft.	wide	 55.00
	trunk												75.00

Specify height, width, single or multiple stem, height of branching, and we can obtain any size, shape or form.

**BURLAPPING**—All trees burlapped in rot-resistant burlap, balls laced tightly with rot-resistant sisal twine and rope. Tops bound securely and safely to prevent injury and breakage.

#### DELIVERY SERVICE-Open top, 32-ft. semi.

Chicago, St. Louis, Kansas City—40c per mi. one way.
Buffalo, Rochester, New York City, state of N. J., Washington, D. C.
—45c per mi.

Cleveland, Columbus, Cincinnati, Dayton, Toledo and Detroit rates slightly higher.

One semi load will hold approximately 300 3 to 4 ft. to 7 to 8 ft.; 200 3 to 4 ft. to 9 to 10 ft., mixed; 150 6 to 7 ft. to 9 to 10 ft., or 75 to 100 8 to 9 ft. to 9 to 10 ft. Combination deliveries accepted.

**USE**—The horizontal-branching habit of White-flowering Dogwood lends itself readily to the horizontal lines of modern architecture of our modern homes.

MEMBERS—American Association of Nurserymen Ohio Association of Nurserymen.

We are not in a beetle area. References upon request.

# WADE & GATTON NURSERIES

Phones: Butler 2-3835, 2-3874 Long distance: Butler 2-3191 References: Dun & Bradstreet By Mail: Bellville, O.

#### OHIO ASSOCIATION

[Continued from page 11]

of customers, because, although they did not realize it, the colors were making them uncomfortable.

Also on the subject of salesmanship, it was noted that the nurseryman should make his customers feel important, treat them courteously and respectfully, give them equal value for money spent, and question the customer so as to sell him the right product or service for his specific situation.

Professor McIntyre pointed out that advertisements should be carefully composed and noted some of the facts to consider. They should sell ideas such as the enjoyment of working outdoors or that working with plants can be a wonderful hobby. Simple descriptive words and illustrations are most effective. Even though results of research have indicated that people think of quality first, service second and price third, price should be included in the advertisement to prevent embarrassment to the customer. Advertisements should be longer than wide, because this follows the form of the paper, fits the normal reading habits of people and is actually easier to read. They should not appear crowded, and the use of white space adds the sparkle and attraction necessary on a page full of type. Great importance was placed on the use of honest and truthful advertising, for false advertising not only hurts the individual business, but can also be detrimental to the whole industry.

Sources for advertising were then discussed, and it was noted that newspaper advertisements would sell merchandise faster and at a lower cost than other types, provided the newspaper was one that many people read. Classified advertisements should be used with the addition of more expensive display advertisements during and preceding the peak selling periods.

The fact that the average person only receives two and one-quarter pieces of mail per day indicates that direct mail advertising can be effective, particularly when it concerns a particular product of interest to a specific group.

Calendar advertising is good, provided these requirements are met: It has 12 leaves or at least six; it can be read from 10 feet away, and the preceding and following months are on the same leaf as the current month.

Professor McIntyre concluded his talk by again stressing the importance of truthful advertising, beAN .

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Juniperus Glauca Hetzi 12 to 15 ins., 3-yr.



Hex Crenata Convexa 8 to 10 ins. and 10 to 12 ins.



Plumosa Aurea

## FIELD-GROWN LINING-OUT STOCK All stock grown in open field beds.

	** *		
	Each	Each	Juniper, Andorra (Purple per per Ea. Ea.
	100	1000	Andorra Juniper). 100 1000 • per per
Abelia grandiflora. 1-yr., T., br	en en	00.00	6 to 8 ins., 1-yr., T
Azalea Ghent (pontica).	. 00.40	80.22	8 to 10 ins., 2-yr., T
3 to 5 ins. 3-vr. T	28	.25	Juniperus canadensis aurea 8 to 10 ins., 3-yr., T
4 to 8 ins., 3-yr., T	35		(Gorden Canadian Juniper).   (100 at 100 rate: 1000 at 1000 rate
3 to 5 ins., 3-yr., T 5 to 8 ins., 3-yr., T 8 to 10 ins., 4-yr., T	55	.50	4 to 8 ins., 1-yr., T
Azalea kaempferi (Torch			Juniperus communis hibernica Each I (Irish Juniper). per
Azalea). Mixed colors.	28	97	10 to 12 ins., 2-yr., T
2-yr., T., field bed 6 to 10 ins., 3-yr., T	38		12 to 15 ins., 3-yr., T., 8 to 12 ins., 3-yr., T
Azalea mollis (Chinese Azalea)			cut back
6 to 8 ins., 2-yr., T	25	.22	Juniperus com. hlb. fastiglata
8 to 10 ins., 3-yr., T	45	.42	(Compact Irish Juniper). Taxus cuspidata (Spreading Yew).
6 to 8 ins., 2-yr., T. 8 to 10 ins., 3-yr., T. 10 to 12 ins., 4-yr., T. 12 to 15 ins., 4-yr., T.	65	.60	10 to 12 ins., 2-yr., T
Azalea schlippenbachi,	. Ledd		10 to 12 ins., 2-yr., T
2-yr., field bed., T	28	.25	
Buxus sempervirens welleri.			8 to 10 ins., 2-yr., T
4 to 6 ins., 2-yr., T	28	.25	10 to 12 ins., 3-yr., T
4 to 6 ins., 2-yr., T 6 to 8 ins., 2-yr., T	35		8 to 10 ins., 2-yr., T
8 to 10 ins., 3-yr., T	40	***	15 to 18 ins., 4-yr., T
Columnar, blue.	ımı.		6 to 10 ins., 2-yr., T
6 to 8 ins., 1-yr., T	25	.99	Thuja occ. douglast aurea.
8 to 10 ins., 1-yr., T	30		6 to 8 ins., 1-yr., T
Chamaecyparis lawsoniana aur			Juniperus pfitzeriana compacta 8 to 10 ins., 3-yr., T
(Golden Lawson Cypress).		40	(Nelson variety) Com. Ea Ea 6 to 8 ins. 2-Vr., T
10 to 12 ins., 3-yr., T 12 to 15 ins., 3-yr., T	45		pactly growing, gray- per per 8 to 10 ins., 3-yr., T
Chamaceyparis plumosa aurea.		.00	blue, 100 1000 10 to 12 ins., 3-yr., T
		.32	3 to 5 ins., 1-yr., T
6 to 8 ins., 2-yr., T 8 to 10 ins., 3-yr., T	45		5 to 8 ins., 1-yr., T
Chamaeeyparis squarrosa, Mos			Thus occ. pilcata douglast
green foliage.	200	0.0	Juniperus squamata meyeri. (Giant Arborvitae), Very dark green.
5 to 8 ins., 1-yr., T	. ,30	.28	5 to 8 ins., 2-yr., T
Chamaecyparis thyoides.	.25	.23	8 to 10 ins., 2-yr., T
6 to 8 ins., 1-yr., T		.20	
Euonymus fortunel carrierei. 6 to 8 ins., 1-yr., T	.22	.20	Greek Juniper).  3 to 6 ins., 1-yr., T
8 to 10 ins., 2-yr., T			6 to 8 ins., 1-yr., T
10 to 15 ins., 3-yr., T	35	.32	
Euonymus fortunei erectus.			10 to 15 ton 9 year on
10 to 12 ins., 2-yr., T	28		Koelreuteria paniculata.
12 to 15 ins., 3-yr., T 15 to 18 ins., 4-yr., T	35		8 to 12 ins., 8-yr., 1
Euonymus patens.		* * *	12 to 18 ins., 3-yr., T
10 to 15 ins	.55		Larix europaea (European Larch). FINISHED NURSERY STUCK
15 to 18 ins	1.00		10 to 18 ins., 3-yr., T18 .15 Priced in the Ground. Eac
Euonymus radicans coloratus.			18 to 24 ins., 4-yr., T
8 to 10 ins., 2-yr., T 10 to 15 ins., 2-yr., T	.22	.20	Leucothoe catesbael. 6 to 8 ins., 2-yr., T
	28	.26	6 to 8 ins., 2-yr., T
Euonymus radicans vegetus.	.25	.23	10 to 12 ins., 3-yr., T
8 to 10 ins., 2-yr., T 10 to 12 ins., 3-yr., T 12 to 15 ins., 4-yr., T	.35		Mahonia aquifolium (Oregon Taxus capitata (Upright Yew).
12 to 15 ins., 4-yr., T	.45	1.00	Grape-Holly). 3 to 5 ins., 2-yr., T
Hex crenata (Japanese Holly).			3 to 5 ins., 2-yr., T
6 to 8 ins., 1-yr., T	.25	.23	8 to 10 ins., 3-yr., T
6 to 8 ins., 1-yr., T 8 to 10 ins., 2-yr., T	. 35	.32	Picea excelsa (Norway Spruce). 5 to 6 ft
llex crenata convexa (bullata).		0.07	10 to 12 ins., 4-yr., T
6 to 8 ins., 1-yr., T	.25		Pieris floribunda. 8 to 10 ft
8 to 10 ins., 3-yr., T 10 to 12 ins., 3-yr., T	.70		6 to 8 ins., 3-yr., T
and the second or party and a contract of			Pieris Japonica.  6 to 8 ins., 3-yr., T
		0.0	6 to 8 ins., 3-yr., T
Hex crenata helleri. 1-yr., field bed., T	.18	.16	
Hex crenata helleri. 1-yr., field bed., T	.18	.10	8 to 10 ins., 3-yr., T
Ilex crenata helleri. 1-yr., field bed., T Ilex rotundifolia (Roundleaf Japanese Holly).			10 to 12 ins. 4-yr. T
Ilex crenata helleri. 1-yr., field bed., T Ilex rotundifolia (Roundleaf Japanese Holly). 6 to 8 ins., 1-yr., T	.30	.28	Pinus mugo (Dwarf Mugho Pine). ing; otherwise 1/3 deposit with o
Ilex crenata helleri. 1-yr., field bed., T Ilex rotundifolia (Roundleaf Japanese Holly).	.30	.28	8 to 10 ins. 3-yr. 7

4 to 8 ins., 2-yr., S. 30.05 \$0.02½ 8 to 10 ins., 3-yr., T. = 12 .08  (100 at 100 rate; 1000 at 1000 rate)  Pyracantha coccinea lalandi 8 to 12 ins., 3-yr., T		Ea. per 1000	
Pyracantha coccinea lalandi   per   per   New   New	Pinus sylvestris (Scotch Pine). 4 to 8 ins., 2-yr., S \$0.05 \$ 8 to 10 ins., 3-yr., T 12 (100 at 100 rate; 1000 at 1000	0.023 .08 rate	6
8 to 12 ins. 3-yr. T	Ea	ch E	lac
10 to 12 ins. 3-yr. T	Pyracantha coccinea lalandi 10	0 1	00
10 to 12 ins. 3-yr. T	Rhus cotinus (Smoke Tree).	32 9	
Taxus cuspidata (Spreading Yew). 6 to 8 ins. 1-yr. T	10 to 12 ins., 3-yr., T	IR 95	
10 to 12 ins. 3-yr. T	Taxus cuspidata (Spreading Yew).		
10 to 12 ins. 3-yr. T	6 to 8 ins., 1-yr., T	25	
6 to 8 ins. 1-yr. T. 28 8 to 10 ins. 2-yr. T. 38 Thuja occidentalis. 2 to 15 ins. 3-yr. T. 38 15 to 18 ins. 4-yr. T. 45 18 to 24 ins. 5-yr. T55 Thuja occ. doughad aurea. 6 6 to 8 ins. 2-yr. T55 Thuja occ. elegantissima intea. 6 6 to 8 ins. 2-yr. T45 10 to 12 ins. 3-yr. T45 10 to 12 ins. 3-yr. T45 11 to 12 ins. 3-yr. T45 12 to 15 ins. 3-yr. T45 13 to 10 ins. 3-yr. T45 14 to 15 ins. 3-yr. T35 15 to 10 ins. 3-yr. T35 16 to 10 ins. 3-yr. T35 17 to 15 ins. 3-yr. T35 18 to 10 ins. 3-yr. T30 19 to 15 ins. 3-yr. T38 10 to 15 ins. 3-yr. T38 11 to 15 ins. 3-yr. T35 12 to 15 ins. 3-yr. T35 11 to 15 ins. 3-yr. T35 12 to 15 ins. 3-yr. T35 13 to 10 ins. 4-yr. T35	10 to 12 ing 3-vr T	45	
Thuja occidentains.  12 to 15 inst, 3-yr., T		28	
Thuja occidentains.  12 to 15 inst, 3-yr., T	8 to 10 ins., 2-yr., T	38	
Thuja occ. dougnasi aurea. 6 to 8 ins., 2-yr., T	Thuja occidentalis.	38	
Thuja occ. dougnasi aurea. 6 to 8 ins., 2-yr., T	15 to 18 ins., 4-yr., T	45	
6 to 8 ins. 2-yr. T			0
Thuja occ. elegantissima intea. 6 to 8 ins., 2 yr., T	6 to 8 ins., 2-yr., T	35	
8 to 1 sins, 3-yr, T			
Thuja occ. grobosa.  8 to 10 ins. 2-yr. T	6 to 8 ins., 2-yr., T	35	
Thuja occ. grobosa.  8 to 10 ins. 2-yr. T	8 to 10 ins., 3-yr., T	45	*
Thuja occ. pHeata douglast (Giant Arborvitae). Very dark green. 6 to 8 ins., 1-yr., T	Thu ia occ. globosa.		
Thuja occ. pHeata douglast (Giant Arborvitae). Very dark green. 6 to 8 ins., 1-yr., T	8 to 10 ins., 2-yr., T	45	**
dark green. 6 to 8 ins. 1-yr., T	Thuja occ. plicata douglast		,
6 to 8 ins. 1-yr., T	dark green		
12 to 15 ins., 3-yr. T	6 to 8 ins., 1-yr., T	22	
12 to 15 ins., 3-yr. T	8 to 10 ins., 2-yr., T	38	
	Isuga canadensis (Hemlock).		*
	8 to 10 ins., 4-yr., T	35	
1-yr., field bed, T			
a-yr., neid bed, T	1-yr., field bed, T	18	
	3-yr., neld bed, T	30	×
	Customer Digs		
Priced in the Ground. Each	Tsuga canadensis (Hemlock).	10	
Tsuga canadensis (Hemlock). 10	3 to 4 ft	82.5	5
Tsuga canadensis (Hemlock). 10 3 to 4 ft	5 to 6 ft	3.7	5
Customer Digs per Tsuga canadensis (Hemlock). 10 3 to 4 ft	Taxus capitata (Upright Yew).	8.0	0
Customer Digs per 10	4 to 5 ft	9.5	0
Customer Diss per Tsuga canadensis (Hemlock). 10 3 to 4 ft	(American Arborvitae).		
Customer Diss  Per Tsuga canadensis (Hemlock). 10 3 to 4 ft. 82,50 4 to 5 ft. 82,55 5 to 6 ft. 3.75 Taxus capitata (Upright Yew). 3 10 4 ft. 8,00 4 to 5 ft. 8,00 Thuja occidentalis (American Arborytine).	5 to 6 ft	3.0	0
Customer Diss per Tsuga canadensis (Hemlock). 16 3 to 4 ft	6 to 7 ft	4.5	
Customer Diss per Tsuga canadensis (Hemlock). 10 3 to 4 ft. 82,50 4 to 5 ft. 82,55 5 to 6 ft. 3.75 Taxus capitata (Upright Yew). 3 to 4 ft. 9,50 Thuja occidentalis (American Arborvitae). 3,00 5 to 6 ft. 3,00 6 to 7 ft. 3,75	0 1- 40 4	5.9	
Customer Diss per 15 to 4 ft	8 to 10 It	0.0	

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Guard your nursery plantings with Alanap-1. It's Naugatuck's remarkable new selective weed killer that has proved itself nationwide.

Spray Alanap-1 after transplanting and annual weeds are killed as they start to sprout. Hand-weeding costs are largely eliminated!

What's more, where Alanap-1 is sprayed, the nursery plantings in most cases are actually bigger and healthier.

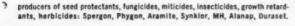
One application gives excellent control of weeds from 3 to 8 weeks, even after heavy rains. Also, Alanap-1 is non-hazardous to humans or animals.

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# Naugatuck Chemical

Division of United States Rubber Company
Naugatuck, Connecticut





cause false advertising will not only hurt the individual nurseryman, but will also be a black mark against the entire industry, as some recent court cases have illustrated.

#### A. A. N. Activities

Curtis Porterfield, administrative assistant, American Association of Nurserymen, Washington, D. C., discussed the nationwide activities of the nursery industry.

Mr. Porterfield pointed out the many ways in which the national trade association is combating and conditioning the outcome of problems in the industry.

The national association is combating moves to permit the importation of plants established in peat moss under quarantine 37. Although the peat moss may be sterile, there may be spores, nematodes or other contaminating factors present on the plants. Other agricultural groups, realizing the potential danger of such a move, are supporting

the association's protest.

The market development and publicity program of the association is being carried out with increasing effectiveness. The industrial landscape award contest is now in its second year, with 54 entries being received, from which 24 awards were made. Mr. Porterfield indicated that the "Plant America" program is progressing and that Ohio has set the pace for the rest of the country.

Mr. Porterfield concluded by pointing direct services to members of the national association such as the group insurance plan, the legislative report service, the merchandising bulletin and the news-letter.

#### Portable Irrigation

Thursday afternoon, Robert J. McCall, New-Way Farm Sales, Columbus, discussed the layout of portable nursery irrigation systems and some of the problems connected with them.

Mr. McCall first listed and discussed some of the considerations to use in purchasing equipment.

(1) The source and availability of water is of prime importance. Most irrigation water is being taken from streams with the use of wells becoming increasingly more important. Approximately 27,154 gallons of water are required to irrigate one acre with one inch of water. Theoretically an acre pond four feet deep is sufficient to irrigate eight acres.

(2) The soil type, texture, structure and depth should be considered. This would help to determine the amount of water to apply at one time and the number of times to irrigate.

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#### Extra-heavy, 3 to 4-ft. Shrubs

Red Branch Dogwood Forsythia Hydrangea Honeysuckle Mock Orange Bridal Wreath Coralberry European Cranberry Tamarix Weigela

#### Heavy, 2 to 3-ft. Shrubs

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## SEEDLINGS

	Per	Per
	100	1000
Acer palmatum		
I-yr., 2 to 4 ins	\$4.00	\$35.00
Red Barberry (Pa. only)		
1-yr., 6 to 12 ins	8.00	50.00
Colorado Blue Spruce		
2-yr., 2 to 3 ins	2.50	12.50
2-yr., 3 to 6 ins	4.00	25.00
3-yr., 5 to 7 ins	6.00	35.00
3-yr., 7 to 9 ins	7.00	45.00
Norway Spruce		
2-yr., 2 to 3 ins	2.50	12.50
2-yr., 3 to 7 ins	4.00	25.00
Douglas Blue Fir		
2-yr., 2 to 3 ins	3.00	15.00
2-yr., 3 to 6 ins	4.50	30.00
500 plants take 1000 rate.	For le	ss than
500, add 10% for Parcel	Post.	

#### FIELD-GROWN

							rate	rate each
Colo	rad	o S	pruce					
			unge					
							\$0.65	\$0.50
							80	.65
12	to	15	ins.,	B&B.			. 1.00	.85
15	to	18	ins.,	B&B.			. 1.40	1.25
18	to	24	ins.,	B&B.			1.60	1.45
24	to	30	ins.,	B&B.	* ×	×	2.00	1.75
50 at	10	00 r	ate.	Nurse	951	,	pickup	only on

## GRAFTED JAPANESE RED MAPLES

B&B stock. Bare-root trees, packed in

Bare-	roo	t, p	acke	d	in	r	no	055	5,						Each
9	to	12	ins											,	\$2.75
12	to	15	ins												3.00
For B				ec	1 :	to	00	k	(	pi	cl	cu	p		only)

#### Miscellaneous Items

Euonymus	erectus,	8	to	12	ins		ach 15c
Euonymus	japonica,	8	to	12	ins.		18c

Roof Cutti Per I Arborvitae, globosa \$ 9.	ngs plants 00 Per 100
	00 20.00
. Marristan	
Arborvitae, elegantissima 10.	
Arborvitae, pyramidal 9.	00 18.00
Juniper, Pfitzer 10.	00 22.00
Juniper, glauca hetzi 9.	00 20.00
Juniper, Andorra 9.	00 20.00
Juniper, sabina 9.	00 20.00
Taxus cuspidata 9.	00 16.00
Taxus capitata 10.	00.81 00
Ilex crenata hetzi 14.	00
200 of a variety 10% disco	ount. Bare

## **GORTON'S NURSERY**

R. D. No. 1 HARBORCREEK, PA. (Nursery located 81/4 miles east of Erie, Pa., on U. S. Hwy. No. 5.) Whereas, a clay soil may tend to puddle with a certain amount of water, a sandy soil may dry out too quickly with the same amount.

(3) The root depth of the crop is important, because inadequate amounts of water would be detrimental to deep-rooted crops.

(4) Consideration should be given to the amount of water lost by evaporation from the soil and transpiration by the plants.

(5) In purchasing a pump, the amount of pressure head should be determined. Calculations must be made of pressure necessary to raise water to higher elevation, of the pressure drop in the main line as well as in the lateral lines, and of pressure drop through the fittings. Mr. McCall indicated that there should be no more than an 8½-pound pressure drop in 1,000 feet of main line and no more than a 20 per cent drop in the laterals. He also noted that a 5-inch pipe will carry twice as much water as a 4-inch pipe.

(6) When setting up and spacing individual sprinklers prevailing winds are a consideration. The laterals are usually located perpendicular to the prevailing winds, and the sprinklers are spaced according to the extent of throw and the amount of water applied in that distance. The spacing of Rainbird sprinklers varies with the speed of the wind as follows: (1) No wind-space Rainbirds up to 65 per cent of the diameter of the throw. (2) Six mile per hour wind-space Rainbirds up to 60 per cent of the diameter of the throw. (3) Eight mile per hour wind-space Rainbirds up to 50 per cent of the diameter of the throw. (4) Above eight mile per hour wind space Rainbirds up to 25 to 30 per cent of the diameter of the throw.

Mr. McCall went on to point out that too heavy a stream of water from a sprinkler may damage the crop or the soil, whereas too fine a mist will be subject to excessive wind drift.

The previous factors illustrate some of the reasons for purchasing an entire system rather than purchasing parts from various sources and thereby having a haphazard setup. It was noted that the dealer is responsible for designing the set-up, providing instructions and plans, and installing the necessary safety devices. The effectiveness of the system is dependent on the complete cooperation of the nurseryman with the dealer's design and instructions.

Mr. McCall illustrated a typical irrigation set-up and showed that, by different placement of laterals, a system could be operated on 16.8,

## MEEHAN SPECIALTIES

## DRESHER-GROWN

Per 100 Red Maple, 11/2 to 2 ft., T\$20.00
Sugar Maple, 11/2 to 2 ft., T 20.00
Paper Birch, 2 to 3 ft., T 25.00
Sweet Gum, 10 to 24 ins., T 20.00
Euonymus alatus, 6 to 8 ins., T
Silver Maple,       3     to 4 ft. T.     22.50       2     to 3 ft., T.     17.50       1½ to 2 ft., T.     12.50
Viburnum plicatum, 2-yr., T 18.50
Viburnum tomentosum,         17.50           2-yr., T.         17.50           1-yr., layers         10.00
Red Oak, 2-yr., S 11.50
Scarlet Oak, 2-yr., S 16.50
White-flowering Dogwood, I-yr., S., grafting size
Salix babylonica,       28.50         6 to 7 ft
TRANSPLANTED BEDDED EVERGREENS
Retinospora plumosa, 6 to 8 ins., T
Retinospora plumosa aurea, 6 to 8 ins., T 20.00
Juniperus pfitzeriana, 6 to 7 ins., T

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Wholesale Growers

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Deutzia lemoinei, 2 to 3 ft., 18 to 24 ins. and 12 to 18 ins.

Deutzia gracilis, 9 to 12 ins.

Hydrangea P. G., 18 to 24 ins.

Philadelphus virginalis, 18 to 24 ins.

#### BLUE HYDRANGEA

Gert Glahn, 3 canes, 9 ins. and up Blue Prince, 3 canes, 9 ins. and up Domotoi, 3 canes, 6 to 9 ins. Red Lake Currants, 2-yr. 1 and 1-yr. 1 Wilder Currants, 2-yr. 1 and 1-yr. 1 Weigela Candida, for spring delivery only.

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#### EVERGREEN SEEDLINGS

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CANALES FOREST NURSERY
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## DECIDUOUS STOCK

		SHE	RUBS	FOREST SEEDLINGS (Cont.)
ALMOND, PINK 10	Per 100	Per 1000	VIBURNUM AMERICANA (American Highbush Per Per Per	PHYSOCARPOS OPULIFOLIUS 100 1000
2 to 3 ft	\$55.00 45.00		Cranberry) 10 100 100	18 to 24 ins
			6 to 12 ins	PRUNUS BESSEYI
15 to 18 ins	27.00	\$240.00 180.00		(Western Sand Cherry) 2 to 3 ft
BARBERRY, THUNBERGI,	8,50		18 to 24 ins	
2-yr., S., 9 to 12 ins 2-yr., S., 6 to 9 ins BUCKTHORN, DAHURIAN 3 to 4 ft. 5.50	4.50		2 to 3 ft 5.50 50.00	PRUNUS PADUS COMMUTATA 2.00 15.00
3 to 4 ft	****	*****	18 to 24 ins 4.50 40.00	12 to 18 ins. 5.50 50.00
CORNUS ALRA SIRIRICA (Re	d Dog	*****	12 to 18 ins. 3.50 30.00  VIBURNUM OPULUS  18 to 24 ins. 5.00 45.00 400.0  12 to 18 ins. 3.50 30.00	4 to 6 ins 3.00 95.00
2 to 3 ft	50,00 35,00			2 to 3 ft
CORNUS GOLDEN TWIG	50.00		FOREST SEEDLINGS	2 to 3 tt
2 to 3 ft 5.50 18 to 24 ins 4.00 12 to 18 ins 2.40 COTONEASTER INTEGERRIM	35.00 21.00	****	ASH. GREEN 100 1000	9 to 12 ins
COTONEASTER INTEGERRIN	IA 20.00		3 to 4 ft. \$5.00 \$455. 2 to 3 ft. \$5.50 \$304. 18 to 24 ins. 2.50 204. 12 to 18 ins. 1.60 154. 6 to 12 ins. 1.20 104.	4 to 6 ins 2.00 15.00 ROSA MULTIFLORA, thorny
18 to 24 ins	50.00		12 to 18 ins. 1.60 15.6 to 12 ins. 1.20 10.6	No. of the second secon
			BOX ELDER 2 0 3 10 30.6 2 10 10 10 10 10 10 10 10 10 10 10 10 10	No. 2, 2/16 to 3/16-in. cal 2.00 15.00 8 to 15 ins
18 to 24 ins 3,80 12 to 18 ins 2,90 FORSYTHIA INTERMEDIA	25.00		18 to 24 ins. 2.50 20.0 6 to 12 ins. 1.20 10.0	6 to 10 ins
3 to 4 ft		450.00	BUCKTHORN, DAHURIAN 18 to 24 ins	3/16 to 1/4-in, cal
HONEVSUCKLE, TATARIAN	ROSE	350.00	12 to 18 ins. 4.00 35.0 6 to 12 ins. 2.50 20.0 CARAGANA ARBORESCENS 3.00 75.6	TAMARIX HISPIDA 2 yr., cutbacks, 24 to 36 ins 20.00 150.00
4 to 5 ft	65.00 55.00		4 to 6 ins	0 VIBURNUM OPULUS 18 to 24 ins
2 to 3 ft	45,00 35,00	400.00	3 to 4 ft	0 12 to 18 ins
HONEYSUCKLE, TATARIAN 1 4 to 5 ft	RUBRA	1 300.00	2 to 3 ft. 5,50 50.0  18 to 24 ins. 4,00 35.0  12 to 18 ins. 3,00 25.0  6 to 12 ins. 2,00 15.0  CHERRY, WILD BLACK  2 to 3 ft. 5,50 50.0	6 to 9 ins
3 to 4 ft	55.00 45.00	500.00 400.00	6 to 12 ins	0 12 to 18 ins
2 to 3 ft	35.00		2 to 3 ft	O AMPELOPSIS VEITCHI (Boston Ivy)
12 to 18 ins	28.00 28.00		12 to 18 ins 2.90 25.0	1-yr., approx. 2 % to 16 ins.,
HYDRANGEA A. G.	50.00		6 to 12 ins	
2 to 3 ft	40.00	Qualit	6 to 9 inc 9 50 90 0	
2 to 3 ft	auty I	ousn)	4 to 6 ins. 2.00 15.0 CORYLUS AMERICANA 2 to 3 ft. 6.50 18 to 24 ins. 5.00 45.0	Per Per Per 100 1000 1000 1000
2 to 4 ft 6.50	60.00 50.00	550,00 450.00	18 to 24 ins	
2 to 3 ft	40.00	350.00	2 to 3 ft	. 4 to 5 ft 4.50 40.00
Alphonse Lavalee	80.00		18 to 24 ins	1 to 4 ft
2 to 3 ft	60.00	*****	18 to 29 lins. 5.00 45.0 CORNUS PANICULATA 2 to 3 ft. 6.00 18 to 24 lins. 5.00 12 to 18 lins. 4.00 12 to 12 lins. 5.00 ELM, AMERICAN 25.00	. CUTTON WOOD, MISSOURIENSIS
2 to 2 ft. 8.50 18 to 24 ins. 6.50 12 to 18 ins. 4.50	80.00		2 to 3 ft s. 3.59 30.0 18 to 24 ins. 2.69 22.0 12 to 18 ins. 1.99 16.0 6 to 12 ins. 1.20 10.0 ELM, CHINESE 75 10.0	8 to 10 ft., whips 10.00 90.00
12 to 18 ins	40.00	*****	12 to 18 ins	0 5 to 6 ft., whips 4.50 40.00 0 4 to 5 ft., whips 3.50 30.00
Charles Joly 12 to 18 ins	40.00		ELM. CHINESE 3 to 4 ft 7.50 65.0	3 to 4 ft., whips 2.50 22.00 0 2 to 3 ft., whips 1.65 15.00
18 to 24 ins 6.50 12 to 18 ins 4.50	60.00	****	2 to 3 ft	CRAB APPLE, RED SILVER
	80.00		2 to 3 ft. 4.59 40.0 18 to 24 ins. 2.90 25.0 12 to 18 ins. 2.10 18.0 5 to 12 ins. 1.20 10.0 HONEYSUCKLE	0 4 to 5 ft
2 to 3 ft. 8.50 whips, 2 to 3 ft. 6.50 18 to 24 ins. 6.50 6 to 12 ins. 3.00	60.00	****	HONEYSUCKLE 18 to 24 ins	ELM, AMERICAN 0 1½-in. cal
6 to 12 ins 3.00	25.00	*****	12 to 18 ins	0 1½-in. cal
6 to 12 lis. 3,00  President Grevy whips, 2 to 3 ft. 6.50  18 to 24 ins. 6.50  12 to 18 ins. 4.50  Vauban	60,00 $60,00$	*****	6 to 9 ins. 3.50 30.00 LOCUST, THORNLESS HONEY Very fine stock, 100 per cent	6 to 8 ft 11.00 100.00
12 to 18 ins 4.50 Vauban	40.00	*****	thornless, excellent lining- out and understock material.	
2 to 3 ft	80.00		3 to 4 ft 8.00 70.00	LINDEN, AMERICAN
whips, 2 to 3 ft 6.50 18 to 24 ins 6.50 PHILADELPHUS GLACIER	60.00		18 to 24 ins	5 to 6 ft 12.00 110.00
3 to 4 ft	45.00		2 to 3 ft. 5.09 45.0 18 to 24 ins. 3.50 30.0 12 to 18 ins. 2.40 20.0 6 to 12 ins. 1.70 14.0 3/16-in. cal. and up	3 to 4 ft 6.50
18 to 24 ins 4.00 12 to 18 ins 3.50	35.00 30.00	****	understocks 2.00 18.00 OAK, BUR	1100 1100 11.00 90.00
PHILADELPHUS LEMOINEI 18 to 24 ins	40.00		18 to 24 ins	3 to 4 ft 8.50 75.00
PRIVET, AMUR RIVER	28.00	*****	9 to 12 ins. 6.50 60.00 6 to 9 ins. 5.00 45.00	OAR, RED
2 to 3 ft., 4 canes 2 to 3 ft., 2 canes	$21.00 \\ 16.50$	180,00 140,00	4 to 6 ins 2.50 20.00 OAK, PIN	0 4 to 5 ft 14 00 195 00
RHUS CANADENSIS	16.50	140,00	2 to 3 ft	POPLAR, LOMBARDY
3 to 4 ft	****	*****	12 to 18 ins	7 1 % -111. Cal 7.00 00.00
SPIRAEA ANTHONY WATERE	R	*****	6 to 9 ins	
15 to 18 ins 5.00 12 to 15 ins 4.00	45.00 35.00	*****	OAK, RED 2 to 3 ft	4 to 5 ft 2.50 21.00 190.00
SPIRAEA ARGUTA			18 to 24 ins	
SPIRAEA BILLIARDI	45.00	****	9 to 12 ins	(Mayday)
2 to 3 ft	$60.00 \\ 45.00$	400,00	0AK, WHITE	2 to 3 ft 5.50
SPIRAEA FROEBELI	35,00	300.00	18 to 24 ins	PRUNUS JAPONICA
18 to 24 ing	35,00	*****	9 to 12 ing	PRUNUS TOMENTOSA 6.50
15 to 18 ins	40.00	330.00	6 to 9 ins	(Nanking Cherry) 4 to 5 ft
15 to 18 ins	30.00	****	2 to 3 ft	3 to 4 ft
2 to 3 ft 4.00	$\frac{45.00}{35.00}$	300,00	12 to 18 ins	PRUNUS TRILOBA
TAMARIX HISPIDA	28.00	****	08AGE 0RANGE 18 to 24 ins	REDRUD
3 to 4 ft	$50,00 \\ 45.00$	450,00 400,00	12 to 18 ins	3 to 4 ft 8.50 80.00

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Plant Patent 83

A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in June, July and August—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business. 2-yr., No. 1 Plants

\$17.50 per 10; \$150.00 per 100; \$1,250.00 per 1000.

Color plate available.

Attractive metal plant patent tag attached to each plant,

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18.4 or 29 horsepower. He concluded his talk by again stressing the desirability of purchasing a complete irrigation system to obtain the most efficient and effective set-up for a particular situation.

#### National Arboretum

Dr. Henry T. Skinner, director of the United States National Arboretum, Washington, D. C., discussed the arboretum and some par-

ticular plant subjects.

As early as 1907 a move was made to establish a national botanical garden or arboretum, but little progress was made. In 1917 John Watson was appointed head of a committee to work on this problem, but World War I slowed any progress. An act to establish an arboretum was passed by Congress in 1927, and 300 acres had been purchased by 1934. The first real appropriation was not made until 1946, when Congress appropriated \$46,000, which was primarily used for roads. The status of the arboretum at present finds two thirds of the roads completed, few buildings and plantings progressing favorably.

The objectives of the arboretum are to establish an outdoor museum and to promote educational and research programs. The area is not restricted to woody plants only, but these are the only plant types there at present. Some of the outstanding research is concerned with the genetic makeup of the many holly types, and plant testing in order to straighten out the many confused genera, such as the 600 clones of Azalea mollis and the 800 varieties and clones of the evergreen and semievergreen azaleas.

Dr. Skinner then showed some excellent slides of some of the outstanding areas of the arboretum. Near the entrance is a synoptic

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P	er 1000
American Arborvitae, 4-yr, transplants, (2-2), 4 to 8 in	\$65.00
Balsam Fir, 4-yr. transplants. (2-2), 4 to 6 in.	65.00
Douglas Fir, 4-yr, transplants, (2-2), 5 to 8 in	65.00
European Larch, 3-yr. transplants, (2-1), 5 to 12 in	. 50.00
Austrian Pine, 4-yr, transplants, (2-2), 5 to 10 in	65.00
Red Pine, 4-yr, transplants, (2-2), 4 to 10 in	65.00
Med Pine, 3-yr. transplants, (2-1), 3 to 5 in	. 50.00
Scotch Pine, 3-yr. transplants, (2-1), 3 to 7 in	. 55,00
Engelmann Blue Spruce, 4-yr. transplants, (2-2), 3 to 5 in	. 70,00
Norway Spruce, 5-yr. transplants, (2-3), 6 to 10 in	. 70,00
Norway Spruce, 4-yr. transplants, (2-2), 4 to 8 in	. 60.00
White Spruce, 3-yr, transplants, (2-1), 3 to 5 in	. 50.00

#### SEEDLINGS

| (Not Guaranteed) | 25.00 | Red Pine, 3-yr. seedlings, (3-0), 4 to 8 in. | 25.00 | Red Pine, 3-yr. seedlings, (3-0), 5 to 8 in. | 25.00 | Black Hill Spruce, 3-yr. seedlings, (3-0), 4 to 10 in. | 30.00 | Colorado Blue Spruce, 3-yr. seedlings, (3-0), 3 to 5 in. | 35.00 | White Spruce, 3-yr. seedlings, (3-0), 4 to 8 in. | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.0

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net: no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

O.B. regu 250 this t the plac kind, for a large of the

90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1. 1955. (Seedlings not guaranteed.)

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants available. Send for complete list of stock.

WESTERN MAINE FOREST NURSERY CO.

DEPT. AN - 235

FRYEBURG, MAINE

## GREEN BARBERRY

		Per 100	Per 1000	Per 5000
2-yr., S., 6 to	9 ins	\$ 5.50	\$ 35.00	\$125.00
2-yr., S., 9 to	12 ins	7.50	50.00	200.00
2-yr., S., 12 to	18 ins	10.00	70.00	300.00

## RED BARBERRY

2-yr., S., 6 to 9 ins	5.50	45.00	200.00
2-yr., S., 9 to 12 ins	7.00	60.00	
2-yr., S., 18 to 24 ins	14.50	125.00	*****
3-yr., T., lightweight, 12 to 18 ins	20.00	175.00	750.00

## EVERGREEN SEEDLINGS

 Pinus nigra, 2-yr., 4 to 5 ins.
 5.00
 40.00
 175.00

 Pinus sylvestris, 2-yr., 4 to 8 ins.
 3.50
 30.00
 137.50

**FAIRVIEW EVERGREEN NURSERIES** 

FAIRVIEW, Erie Co., PA.



## AT THEIR BEST

21/4-in. pots — except where noted. \*Bed-grown, shipped bare rooted. All plants are well established. 250 of one variety at 1000 rate.

Each	Each
20c	171/20
. 200	/2
171/ -	
171/2C	* * * * *
. 171/2c	* * * * *
. 221/2c	20c
. 221/2c	20c
	20c
.20c	18c
20c	181/20
171/20	15c
200	181/20
. 200	10/20
.60c	
E-	10c
21/- 0	8c
2./20	90
. 171/2c	15c
171/2c 20c	
.20c	
. 20c	
. 20c	181/20
.20c	181/ <sub>2</sub> c
.171/2c .171/2c .171/2c	181/ <sub>2</sub> c
. 20c	181/ <sub>2</sub> c
.171/2c .171/2c .15c	181/ <sub>2</sub> c
.171/2c .171/2c .15c .15c	181/ <sub>2</sub> c
20c 171/2c 171/2c 15c 5c	181/ <sub>2</sub> c
20c 171/2c 171/2c 15c 5c	181/ <sub>2</sub> c
.171/2c .171/2c .15c .15c	181/ <sub>2</sub> c 15c 15c 121/ <sub>2</sub> c
	Each per 100 20c  171/2c 171/2c 221/2c 221/2c 20c 171/2c 20c 40c 60c

Each per 100	Each per 1000
20c 221/2c 20c	20c 18 <sup>1</sup> / <sub>2</sub> c 20c 18 <sup>1</sup> / <sub>2</sub> c 18 <sup>1</sup> / <sub>2</sub> c
. 35c	321/2c
.30c	181/2c 271/2c 221/2c
221/2c	181/2c 20c 181/2c
20c	181/2c 181/2c 181/2c
. 20c	181/2c
	18c 18c
. 20c	181/2c 18c 181/2c
.20c	181/2c
20c 221/2c	221/2 c 181/2 c 20 c 20 c 181/2 c
	per 100  221/2c  20c  221/2c  20c  20c  35c  20c  30c  25c  20c  20c  20c  20c  20c  20c  2



## GRESHAM'S NURSERY

Phone: 82-5689 (Day) 82-5680 (Night) R. F. D. 9 RICHMOND 25, VA.

## LINING-OUT STOCK

For Spring, 1955, Delivery

Prices are F.O.B. Westminster, Md.; packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order.

# THE WESTMINSTER NURSERIES WESTMINSTER, MD.

## ROSA MULTIFLORA JAPONICA

(Multiflora Rose)

Hardy, northern-grown seedlings. Upright, thorny type for stocktight living fences, conservation and budding understock. We select our seeds for trueness to type. The plants are excellently grown.

| 1 to 2-mm. cal., 8 to 10 ins. in height | \$10.00 |
2 to 3-mm. cal., 10 to 15 ins. in height | 12.50 |
3 to 4-mm. cal., 12 to 15 ins. in height | 15.00 |
4 to 6-mm. cal., 15 to 24 ins. in height | 25.00 |
6 to 12-mm. cal., 18 to 36 ins. in height | 35.00 |
Conservation grade, 3 to 12-mm. cal., 12 to 24 ins. | 22.50

Heights are approximate. Sample for \$2.00. Also sold row run by the pound. You do the counting, at very attractive prices. No charge for packing. Shipped cut back to about 8 ins. unless you state otherwise.

Ask for quantity prices.



#### **BROOKVILLE NURSERIES**

GLEN HEAD, N. Y.

Nursery-Grown

## RED OAKS

2 to 7-in. cal.

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## **DOUGLAS FIRS**

4 to 20 ft.

Write for prices.

#### THE BUDDIES NURSERY

P. O. Box 14

BIRDSBORO, PA.

## GROWERS

**EVERGREEN TREE LINING-OUT STOCK** 

SUNCREST EVERGREEN NURSERIES

P. O. Box 594

JOHNSTOWN, PA.

# QUALITY MERCHANDISE AT REASONABLE PRICES

## VANDERBROOK NURSERIES

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

The STEDMAN NURSERIES NEWFANE, N. Y.

planting, which includes types of all the plants in the arboretum grouped in family classification.

There are over 300 varieties of crab apples in the arboretum and over 60 forms of dogwood in one of the plantings.

Dr. Skinner extended an invitation to all to visit the arboretum and indicated that it is open to nurserymen and other plantsmen the year around and to the general public during the growing season.

#### Plant Industry Division

The Friday morning session opened with comments by John Barringer, chief, division of plant industry, Ohio department of agriculture.

Discussing the division's work, Mr. Barringer indicated that the Japanese beetle had been one of the major concerns. The beetle infestation began in New Jersey in 1916 and moved westward, reaching serious proportions in Ohio in 1937-38. There are eighteen counties under the Japanese beetle quarantine in Ohio at present, with the others in fairly good condition.

#### Research Report

John Strate, Ohio State University, outlined the work he had done under the Ohio Nurserymen's Association fellowship in 1954.

Extensive research has been conducted on growing a variety of nursery stock in containers, and results of this work were reported. A soil mixture of one part sand, one part peat moss and one part soil was generally quite good; the addition of Havdite did not improve results significantly. Borax applied at twelve pounds per acre under a 2-inch laver of sand, on which the cans were placed, eliminated all weeds around the cans. Watering once a day gave the best results on plant growth. The significance of winter protection was noted when all unmulched plants died in the winter of 1953-54, whereas the mulched plants survived 100 per cent. Work is being carried on this year, testing different methods of winter protection.

Results of foliar fertilization work led to the conclusion that it should be used only as a supplement to soil fertilization.

In tests of Juniperus virginiana versus Juniperus chinensis hetzi used as understocks, a greater percentage of take was noted with a number of Juniper varieties on J. c. hetzi.

J. C. BRITT recently opened the Evergreen Nursery at Silva, Mo. MAN

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## **EVERGREENS and FLOWERING SHRUBS**

Almond Disk donosing	F7	F7 1	FLOWERING SI			Privet, Ibolium Per 100 Pe	Sach er 1000
own root	Each Per 10	Each Per 100	Forsythia Spectabilis	Each Per 10	Each Per 100	1450 6 to 12 ins. 1.0	.03
1125 6 to 18 ing 2-yr los	0.12	80.10	50 6 to 12 ins. Lo	80.04	\$0.031/2	550 18 to 24 ins., l.o04	.031/2
765 12 to 18 ins., br 855 18 to 24 ins., br	.30	.15	300 12 to 18 ins., l.o 525 18 to 24 ins., l.o	.05	.04	800 12 to 18 ins., 2 br06	.05
2460 2 to 3 ft., br 353 3 to 4 ft., br	.35	.30	450 12 to 18 ins., 2 br	.10	.071/2	Rose, Hansa 360 l.o	.10
Althaea Anemonaeflora,	.40	.35	450 12 to 18 ins., 2 br 875 12 to 18 ins., br 900 18 to 24 ins., 2 br	.15	.10	360 l.o	.15
pink			1240 18 to 24 188., Dr	.20	.15	3000 No. 1	.30
50 12 to 18 ins., l.o 117 18 to 24 ins., l.o	.05	.04	Honeysuckle, Fragrantissim 25 6 to 12 ins., l.o	.05	.04	Rose, F. J. Grootendorst	98
245 3 to 4 ft., br	.30	.25			.05	620 No. 1½	.25
Althaea Paconiflora, pink	.04	.031/2			.06	60 1.0	.10
	.05	.04	350 12 to 18 ins., 2 br 1158 12 to 18 ins., br	.15	.12	110 No. 2	.15
159 18 to 24 ins., l.o 166 12 to 18 ins., br	.06	.05	525 18 to 24 ins., 2 br	.15	.12	1085 No. 1	.30
250 3 to 4 ft., br	.30	.25	Honeysuckie, Morrowi 12 to 18 ins., 1.0 18 to 24 ins., 1.0	.05	.04	19 l.o	.10
Althaea Boule de Feu, red 150 6 to 12 ins., l.o	.04	.031/2	18 to 24 ins., l.o	.06	.05	19 1.0	.15
144 12 to 18 ins., l.o 25 18 to 24 ins., l.o	.05	.04	12 to 18 ins., br 18 to 24 ins., br	.171/2	.1216	Beauty, nink	
	.06	.05	2 to 3 ft., br 3 to 4 ft., br	.221/2	.171/2	8 l.o	**
Althaea Lucy, red 250 6 to 12 ins., l.o			4 to 5 ft., br Honeysuckie, Zabeli	.321/2	.271/2	20 No. 2	
250 6 to 12 ins., l.o	.04	.031/2	Honeysuckie, Zabeli	.20	.15		
150 12 to 18 ins., l.o	.06	.05	1100 18 to 24 ins., br 886 2 to 3 ft., br	.25	.20	EVERGREENS	
1390 12 to 18 ins., br	.15	.10				Arborvitae, Baker	Each
	.30	.25	125 12 to 18 ins., 2 br 490 12 to 18 ins., br	.20	.15	3 to 4 ft., B&B	2.00
21 12 to 18 ins., l.o	.05	.04	50 18 to 24 ins., 2 br.,	.25	.20	Arborvitae, Berckmans	0.00
21 12 to 18 ins., l.o 80 18 to 24 ins., l.o 125 12 to 18 ins., br	.06	.05	935 18 to 24 ins., br Philadelphus Coronarius	.30	.25	Arborvitae, Chinese	. 2.00
	.30	.25	50 6 to 12 ing 10	.04	.03	2 to 3 ft., B&B 3 to 4 ft., B&B	1.25
Althaea Purpurea Semiplena, double purple			100 12 to 18 ins., l.o 225 18 to 24 ins., l.o	.05	.04	Juniper, Capacrti	1.50
	.04	.031/2	340 12 to 18 ins., br Philadelphus Grandiflorus	.15	.10	Juniper, Canaerti 4 to 5 ft., B&B. 5 to 6 ft., B&B.	4.00
75 12 to 18 ins., l.o 194 18 to 24 ins., l.o 575 12 to 18 ins., br	.05	.04	Philadelphus Grandiflorus	0.5	.03	5 to 6 ft., B&B	4.50
575 12 to 18 ins., br	.15	.05	25 6 to 12 ins., l.o 43 12 to 18 ins., l.o	.05	.04	Juniper, Chinese 3 to 4 ft., B&B	3.50
			23 18 to 24 ing., Lo	.06	.05	4 to 5 ft., B&B	4.90
160 2 to 3 ft	.35	.25	15 12 to 18 ins., br Philadelphus Virginalis	.15	.10	Juniper, Glauca 4 to 5 ft. B&B	4.00
65 5 to 6 ft	.45	.40	20 18 to 24 ins., br	.30	.25	4 to 5 ft., B&B	4.50
nurnia tree form			Snowball 61 6 to 12 ins., l.o	.08			
40 2 to 3 ft	.30	.25	173 12 to 18 ins., l.o	.10	**	3 to 4 ft., B&B 5 to 6 ft., B&B	2.50
Althaea Paconiflora, pink,	.35	.30	90 18 to 24 ins., Lo	.121/2	* *	Juniper, Sylvestris 2 to 3 ft., B&B. 3 to 4 ft., B&B.	1.50
tree form			114 9 to 12 ins., br 230 12 to 18 ins., br	.20	* *	3 to 4 ft., B&B	2.00
552 2 10 2 66	.30	.25	Spiraca Anthony Waterer			4 LO D IL., 150015	2.50
1448 3 to 4 ft	.35	.30	530 9 to 12 ins., br 1236 12 to 15 ins., br	.20	.15	Juniper, Hetzi 24 to 30 ins., B&B	2.25
45 5 10 6 11	.45	.40				Juniper, Pfitzer	
Althaea Lucy, red, tree form	.30	.25	75 12 to 18 ins., l.o	.10	.071/2	Juniper, Pfitzer  15 to 18 ins., B&B	2.25
	.35	.30	75 12 to 18 ins., l.o 50 18 to 24 ins., l.o Spiraea Opulifolia Aurea	.121/2	.10	Juniper, Von Ehron, upright	70.400
635 4 to 5 ft	.40	.35	(Golden Ninebark)		0.0	Juniper, Von Ehron, upright 24 to 30 ins. B&B  Juniper, Von Ehron, spreading 15 to 18 ins., B&B	2.25
Althaea Jeanne d' Arc,	.45	.40	75 6 to 12 ins., l.o 100 12 to 18 ins., l.o	.05	.03	15 to 18 ins., B&B	1.50
	0.0		100 12 to 18 ins., l.o 386 18 to 24 ins., l.o	.06	.05	18 to 24 ins., B&B 24 to 30 ins., B&B	1.75
white, tree form 40 2 to 3 ft	.35	.25	125 12 to 18 ins., 2 br Spiraca Vanhouttei	.10	.071/2		
	.45	.40	4475 12 to 18 ing. br.	.10	.06	2 to 3 ft., B&B.	2.00
Barberry, Green-leaved				.15	.10	3 to 4 ft., B&B	3.50
198 2-yr., T., 12 to 15 ins., br	.20	.15	10,870 2 to 3 ft., br 2410 3 to 4 ft., br	.25	.20	4 to 5 ft., B&B. 5 to 6 ft., B&B. 6 to 8 ft., B&B.	4.50
Barberry, Red-leaved			Weigela Abel Carriere 109 6 to 12 ins., l.o	.05	.04	White Pine	5.50
330 2-yr., T., 12 to 15 ins., br	.95	.20	100 12 to 18 ins., l.o	.06	.05	10 to 94 ing D&T2	1.50
490 15 to 18 ins., br	.30	.25	100 12 to 18 ins., l.o 125 18 to 24 ins., l.o	.09	.07	Norway Spruce 18 to 24 ins., B&B	2.00
Buddleia Pink Charming,			383 12 to 18 ins., br 430 18 to 24 ins., br	.20	.15	24 to 30 ins., B&B	2.50
pink 100 1-yr., l.o.	.06	.05	Weigela Rosea			BROAD-LEAVED EVERGREE	PINE
420 I-yr., No. 2	.15	.10	62 6 to 12 ins., l.o 125 12 to 18 ins., l.o	.05	.04	Abelia Grandiflora	Each
1330 1-yr., No. 1½	.20	.15	700 18 to 24 ins., Lo.,,,	.09	.07	2 to 3 ft. B&B	\$1.00
Cydonia Japonica Rubra			514 12 to 18 ins., 2 br 975 12 to 18 ins., br	.15	.16	2 to 3 ft., B&B 3 to 4 ft., B&B Barberry, Mentorensis	1.25
49 18 to 24 ins., br	.35	.30	759 18 to 24 ins., 2 br 780 18 to 24 ins., br	.20	.15	123 30 to 36 ins., 2-vr	
Deutzia Pride of Rochester	OF	0.0	780 18 to 24 ins., br	.25	.20	123 30 to 36 ins., 3-yr., heavy, B&B	1.25
	.05 .06	.04	1370 2 to 3 ft., br	.35	.30	Buxus Hariandi 8 to 10 ins., 3-vr., B&B	1.25
668 18 to 24 ins., 1.0	.07	.06	Weigeth Even Butting		00	8 to 10 ins., 3-yr., B&B	1.50
1625 12 to 18 ins., br 2245 18 to 24 ins., br	.15	.10	1925 12 to 18 ins., br Weigela Floribunda	.25	.20	Buxus Sempervirens	1.50
40 3 to 4 ft., br	.30	.25	75 6 to 12 ins. 10	11	.061/2	12 to 15 ins., 4-yr., B&B	2.00
Deutzia Rosea			98 12 to 18 ins., l.o 200 18 to 24 ins., l.o	.10	.071/2		
136 6 to 12 ins., l.o	.05	.05	550 12 to 18 ins., br	.25	.20	15 to 18 ins., B&B 24 to 30 ins., B&B	1.50
843 18 to 24 ins., l.o	.07	.06				30 to 30 Ins., D&D	1.75
1350 12 to 18 ins., br	.15	.10	Willow, Niobe			15 to 18 igs., B&B	1.75
	.26	.15	Willow, Niobe	.40	.30	Ilex East Palatka	
Forsythia Fortunei			40 4 to 5 ft	.00	.40	18 to 24 ins., B&B	1.50
25 6 to 12 ins., l.o	04	.031/2	P	lach	Each	Floridum, Humile, Nudiflorum	
475 18 to 24 ins. 1.0	.05 .06	.04	Privet, California Pe	er 100 P	er 1000 \$0.021/2	3 to 4 ft., B&B	1.50
1200 12 to 18 ins., br	.15	.10	1125 18 to 24 ins. Lo	.031/2	.03	2 to 3 ft., B&B	1.25
300 18 to 24 ins., 2 br 2110 18 to 24 ins., br	.15	.10	3000 12 to 18 ins., 2 br 2025 12 to 18 ins., br	.05	.04	2 to 3 ft., B&B 3 to 4 ft., B&B	1.50
350 2 to 3 ft., 2 br	20	.15		.06	.05	Magnolia Grandiflora  2 to 3 ft., B&B	
	221/3	.171/2	4868 2 to 3 ft., br 960 3 to 4 ft., br	.081/2	$.07\frac{1}{2}$	3 to 4 ft., B&B	3.00
Forsythia Intermedia	.04	.031/2	Privet. Amur River North	$.09\frac{1}{2}$	.081/2	4 to 5 ft., B&B	4.00
	05	.04	Privet, Amur River North 9295 6 to 12 ins., l.o	.03	.021/2	Nandina Domestica 18 to 24 ins., B&B.  Pyracantha Lalandi, orange berry	1.00
150 12 to 18 ins., Lo			E400 10 to 10 les 1 a	.031/2	.03	Pyragantha Lalandi oranga heery	
150 12 to 18 ins., l.o	06	.05	5400 12 to 18 ins., l.o	04	021/	2 to 2 ft DAD	1 80
150 12 to 18 ins., l.o	10	.071/2	8375 9 to 12 ins., br	.04	.031/2	3 to 4 ft., B&B	1.50
150 12 to 18 ins., l.o	10	.05 .07½ .10 .10	8375 9 to 12 ins., br Privet, Regel	.04	.03½ .05	2 to 3 ft., B&B	1.75

All 18 to 24 ins. and smaller grades tied 25 per bundle. All larger grades tied 10 per bundle. No bundles broken. Cash with order unless credit established with us. Quotations gladly submitted on large quantities.



#### John O. Williams

John O. Williams, a past president of the Virginia Nurserymen's Association, died January 14, at Richmond, Va. He resided at 3650 Hermitage road and is survived by two married daughters.

Formerly associated with his two brothers, who operate Williams & Harvey Nursery, Richmond, he entered business alone under the name of John O. Williams, 10 years ago.

Mr. Williams was a loyal supporter of the Richmond nurserymen's group, composed of 12 Richmond nurserymen, organized to further customers' relations and to educate the public in the further use of quality nursery stock.

#### Raymond P. Cook

Raymond P. Cook, owner and operator of Cook's Nursery, Geneva, O., for over 30 years, died at his home January 18 at the age of 76.

Mr. Cook was born on a farm at Geneva. He taught school for five years and later was employed as a traveling salesman. After obtaining a profitable income as a salesman, he started the nursery business in 1924.

Cook's Nursery will carry on business under the same name and will be managed by Mr. Cook's grand-daughter and her husband, Pat and Bob Holden. Mrs. Holden has been interested in the nursery business since an early age, when she accompanied Mr. Cook to conventions.

#### Paul Fisker

Paul A. Fisker, 53, partner in Kent Nursery, Kent, Wash., died January 3, in his home. Mr. Fisker went to Enumclaw, Wash., from his native Denmark in 1924. He moved to Kent and became a partner in the Kent Nursery in 1933.

Surviving him are his widow, Effie; a son, Gary Paul, a student at Washington State College, and a sister and two brothers in Denmark.

#### Cornelius Faddegon

Cornelius Faddegon, 70, owner and operator of Faddegon's Nursery, Niskayuna, N. Y., for the past 35 years, died suddenly of a heart ailment Christmas day at Ellis hospital, Schenectady.

Mr. Faddegon began his career in the nursery business in his native Holland and worked at the business in England and Scotland before coming to America. He is survived by his widow, a son, a daughter and three grandchildren, all of Niskayuna.

#### Henry Kuehl

The death of Henry Kuehl, Moline, Ill., January 21, at the age of 90, received notice in newspapers of other states as well as his own because he is reputed to be the man who planted the original Moline elm tree in his front yard in 1903 and started it on its way to popularity.

The report is that Henry Kuehl, an insurance agent and real-estate dealer, found an elm sapling near his home and transplanted it to his yard. A nurseryman, probably the late Charles Klehm, of Arlington Heights, Ill., recognized the value of the tree, about 1916, and grew it

from cuttings in his nursery, beginning to produce the tree on a commercial scale. The tree he first planted is marked with a historical plaque.

## CANADIANS MEET [Continued from page 8]

that the next course be held in Hamilton, Ont.

Reporting as chairman of the advertising and publicity committee Friday morning, Mr. Shuttleworth reviewed the results of the program instituted a year ago. Advertisements appeared in 21 Canadian newspapers during a 16-week campaign from February 6 to May 22. These 28-line advertisements urged the public to buy from members of the association. As part of the program it was planned that association members run "hooker" advertisements. Plaques were sent to members to display at their nursery in a prominent place. A chart was pre-

## NORTHERN-GROWN STOCK-

LANDSCAPE-SIZE SHRUBS	PAPER BIRCH
Ciethra ainifolia Per 10 Per 100	Betula papyrifera Per 100 Per 1000 2 to 3 ft
18 to 24 ins., clumps\$4.00 \$35.00	2 to 3 ft \$ 8.00 \$ 70.00
2 to 3 ft., clumps 6.00 50.00	3 to 4 ft
3 to 4 ft., clumps 8.00 70.00	
lex verticillata	6 to 8 ft 90.00
2 to 3 ft., clumps 6.00 50.00	TENTENC ON CHOOSE
3 to 4 ft., clumps 7.00 60.00	LINING-OUT STOCK
Viburnum cassinoides	Acer saccharum
2 to 3 ft., clumps 5.00 40.00	2 to 3 ft
3 to 4 ft., clumps 7.00 60.00	
iburnum dentatum	
2 to 3 ft., clumps 4.50 35.00	Clethra alnifolia
3 to 4 ft., clumps 6.00 50.00	6 to 18 ins 7.00 60.00
	Ilex verticillata
SUGAR MAPLES	1 to 2 ft 10.00 96.00
Unit price in quantities	Syringa vulgaris
Acer saccharum 10 to 50 to 49 250	1 to 2 ft 7.00 60.00
cer saccharum 49 250	Viburnum acerifolium
11/4 to 11/4-in, cal \$ 4.00 \$ 3.50	
1% to 1%-in. cal 6.00 5.00	
1% to 2 -in. cal 7.00 6.00	Viburnum cassinoides
2 to 21/2-in, cal 9.00 8.00	1 to 2 ft 8.00 70.00
2½ to 3 -in, cal 12.00 11.00	Viburnum dentatum
	1 to 2 ft 8.00 70.00
CLUMP BIRCH	
Per 10 Per 100 5 to 6 ft.,	HEMLOCK TRANSPLANTS
0 to 6 It.,	Tsuga canadensis
3 stems and up\$30.00	4 to 8 ins., trans., 2-2. 15.00 120.00
6 to 8 ft.,	8 to 12 ins., trans., 2-2. 20.00 180.00
3 stems and up 40.00	THE OWN OWNER THE
iray Birch	HEMLOCK SEEDLINGS
4 to 6 ft.,	Tsuga canadensis
3 to 6 stems 20.00 \$150.00 6 to 8 ft.,	6 to 9 ins 4,00 20,00 9 to 12 ins 6,00 45,00
3 to 6 stems 35.00 250.00	
3 to 6 stems 35,00 250,00	12 to 18 ins 8.00 65.00

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- 3 It should have a bottom opening adequate for good drainage without waterlogging; no rock or gravel necessary.
- 4 Bottom must be wide enough to prevent blowing over when spaced in frames.
- 5 It should be made in sufficient sizes to accommodate stock of any salable size.

- 6 It should be neat and uniform in appearance, an asset to the sales area.
- And tough enough to permit handling in frame and salesyard.
- R Pot should be easy for customer to remove, either at once or a week or even a month after delivery.
- 9 It should be light as possible to reduce freight costs, yet fill these requirements.
- 10 It must be sufficiently low in price that it may be given away with the plant.

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City\_

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	Per
10	100
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	5.00
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	0.00
	0.00
	0.00
	0.00
	0.00
	0.00
Juniperus virginiana canaerti 6.00 5	0.00
Juniperus virginiana elegantissima	0.00
Juniperus virginiana glauca	0.00
Juniperus virginiana kosteriana	0.00
Juniperus virginiana pyramidiformis hilli	0.00
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Magnolia cordata	5.00
	0.00
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	0.00
	0.00
	0.00
	5.00
	0.00
	0.00
*Pinus cembra	5.00
	0.00
Thuja occidentalis elegantissima	0.00
Thuja occidentalis lutea George Peabody	0.00
	0.00
	0.00
	0.00
Thuia occidentalis rosenthali 5.00 4	0.00
	0.00
	0.00
Thuja orientalis conspicua	0.00
	0.00
	0.00
*Five-needle pines cannot be shipped in the following states: Arizona, California, Colora Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.	do,

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sented with figures for each province. the totals revealing that \$3,100 was spent on the advertising program, with 55 of the 171 members using hooker advertisements and membership dues for the year amounting to \$4,000.

#### Virus-free Cherry Budwood

While the annual business meeting took place, Thursday morning, an education session was scheduled for growers.

The development of virus-free cherry budwood was discussed by G. H. Berkeley, Canada department of agriculture, St. Catharines, Ont. He related that the disease in cherry trees has been spreading naturally in Canada. It becomes apparent in spring, he said, when the buds unfold. At first the tree receives a great shock, but recovers in about six weeks. The leaves fall, but then come back. Many nurserymen take buds from trees not knowing they are infected, he reported, for it is necessary to see the trees in the shock stage to know they contain virus. In three nurseries 30 trees in each were examined and 28, 27 and 4 of the trees in each nursery were infected. A crop can be reduced by 20 to 50 per cent if the trees are infected, he warned.

There is no known cure for the disease, he said; rather, preventive measures are taken by setting out virus-free stock. Mr. Berkeley believed nurserymen should establish virus-free blocks

Virus-free cherry budwood is available at the Vineland experimental farm, he announced. Montmorency sour cherry stock has been available for three years, and now Lambert, Schmidt, Napoleon, Black Tartarian, Bing and Deacon are available among the sweet cherries. Hedelfinger and Windsor will be available in 1956. Careful work is being done to index trees, and virusfree seedlings of Mahaleb and Mazzard will soon be available, he added. If the nursery industry avails itself of the virus-free budwood, it can give growers virus-free stock, he concluded.

#### Propagating Clematis

Propagation of clematis was discussed by C. M. Barron, Barron's, Fonthill, Ont. Cuttings are taken in March and are rooted in a medium of half sand and half vermiculite. About five cuttings can be taken from a shoot, as only one eye is required. The cuttings have to be taken at the right time, when the wood on the plant is semihard. Particular care is needed with white

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Happiness-Pat. No. 911, No. 1 and 11/2

Helen Traubel-Pat. No. 1028,

Katherine T. Marshall — Pat. No. 607, No. 1 and 1½ Lowell Thomas - Pat. No. 595,

Mirandy - Pat. No. 632, No. 1 and 11/2

Mission Bells—Pat. No. 923, No. 1 and 1½

Nocturne — Pat. No. 713, No. 1 and 1½

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Symphony-Pat. No. 958, No. 1

Cl. Forty-Niner-Pat. No. 792,

Cl. GoldHocks — Pat. No. 1090, No. 1 and 1½

Cl. Peace-Pat. No. 591, No. 1

High Noon-Pat. No. 704, No. 1 Easter Parade - Pat. No. 1200, No. 1 and 11/4

Irene of Denmark — Pat. No. 889, No. 1 and 1%

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General Sales Offices: 309 West Jackson Blvd., Chicago 6, Illinois varieties, as they root less easily. Cuttings receive 65 degrees of bottom heat and 55 degrees of overhead heat. The cuttings are jammed in real close, and the leaves are not trimmed. Air must be provided without a draft, and shading is necessary so that the cuttings do not receive direct sunlight. The cuttings get black spot on the leaves; so, Mr. Barron said, he picks off the infected leaves each day.

After the cuttings are rooted in four to eight weeks, they are placed in  $2\frac{1}{2}$ -inch rose pots. The plants are grown on in the greenhouse during the summer and then about November 1 are moved to coldframes. In December the plants are transferred to 4-inch pots and grown on until the middle of March. A temperature of 55 to 60 degrees is maintained.

A mixture of half peat with soil is used for potting, with phosphates being added to the soil. Steam-sterilized soil should be used, he added, for the plants are subject to root knot nematode.

#### **Grafting Demonstrations**

A demonstration of grafting fruit trees was presented by H. Rogers, Fonthill Nurseries, Fonthill, Ont. Mr. Rogers passed out specimens of grafts and emphasized using clean stock in the grafting of apple stock. A mild solution of Dreft can be used to wash the understock, and the union can be tied with fine cotton thread, not waxed. Mr. Rogers stated that the grafts are stored by packing in boxes containing a mixture of two-thirds clean pine sawdust and one-third clear sharp sand. The temperature is kept at 36 to 40 degrees for twelve weeks, 2,000 being stored in a box.

Grafting of evergreens was the subject of a talk by C. De Groot, Sheridan Nurseries, Ltd., Clarkson, Ont. He advised using 3/16-inch to 5/16-inch plants for understock. The understock needs a good check, a 24 to 48-hour freeze, before the under heat is turned on. After the stock has grown for a while, watch for disease, he cautioned. A browning on the new growth means juniper disease and should be controlled by spraying.

To graft, a 1½-inch slit is made on the understock and the scion is inserted, being bound together with a rubber tie. The grafts should be soaked before being placed in the sweatbox, he said, for no water is added afterward. The sweatbox he uses is lined with waterproof paper, and the temperature is run up to 80 degrees. After four weeks the

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#### 2 English Hollies Male and Female

We have a large assortment of English, Chinese and American hollies such as the ones above, well established for bedding in May. For Climate Zone 5 and part of 4 we recommend:

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Hex pernyl, male and female	50.00
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Selected Heavy Fruiter	65.00
(this is choice)	
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A very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwoodlike leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

6 to 8 ins., T... 15c. 8 to 10 ins., T... 20c.

#### PIERIS JAPONICA

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Newport, R. I.

- Quality Nursery Stock · Lining-Out Stock
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understock is trimmed, and a second trim is made after eight weeks. The plants are kept in the greenhouse until May and then planted in the field. Irrigation is done before and

after planting.

The latest on mist propagation was discussed by L. Hancock, Woodland Nurseries, Cooksville, Ont., concluding the morning's talks. He optimistically pointed out that great strides have recently been made and will be made in mist propagation. The electronic leaf introduced at the plant propagators' meeting in Cleveland, O., this year has helped to root cuttings that have never been rooted before. Mr. Hancock said he looks for continued advancement in propagation of nursery stock.

#### Trees for City Streets

Thursday afternoon the nurserymen were treated to a well-rounded discussion on trees, commenced by a talk by Edward H. Scanlon, former commissioner of shade trees at Cleveland, O. In eight years Mr. Scanlon supervised the planting of 32,000 trees on the streets of Cleveland and was responsible for the removal of thousands more.

Trees should be planted to give utmost satisfaction, he said. It is a crime to plant unsightly trees on city streets, for they eventually will have to be removed. Much of this type of planting has been sentimental, he believes, and not businesslike. Trees on city streets today are for ornamental purposes and not for shade. Mr. Scanlon showed colored slides of trees which he had planted in the Cleveland area.

In Cleveland it costs \$300,000 to \$350,000 per year to remove trees, he related. Raised sidewalks, causing injury to older people, cost the city \$75,000 to \$100,000 per year in lawsuits, he added. Mr. Scanlon advocated the use of smaller trees and believes that there are different species of trees to fit all situations.

The minimum spacing for city street planting should be 50 feet, although he prefers 55 feet. It is a great fallacy, he affirmed, that one tree should be planted in front of each house. Flowering trees can be used to good advantage on city streets, he said. To determine whether certain trees will survive a climate, they have to be tried in number, with not too much emphasis being given to the first-year results, he stated.

Following Mr. Scanlon's talk trees in the urban landscape was discussed by Austin Floyd, landscape architect, Toronto, Ont. People

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5-in cal.
PINUS gran, 4 to 5 ft. and 5 to 6 ft.
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MALUS in variety, 6 to 8 ft. and 8 to

FRENCH HYBRID LILAC, 4 to 5 ft. TAXUS hicksi, 18 to 24 ins.

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30 Rockefeller Plaza, New York 20, N. Y.

P.S. Malathion kills flies, too!

usually want trees that will grow as fast as possible, but 25 to 30-foot trees will stay alive longer, he counseled. In his business, Mr. Floyd points out the advantages of trees, the cool shade and air circulation they provide. So that the red and silver maple would not be lost from the urban landscape, Mr. Floyd posed the question whether these trees could be grafted on harder stock to prevent the large growth.

A. Buckley, Central experimental farm, Ottawa, Ont., discussed ornamental trees at the Dominion Arboretum. The arboretum at Ottawa, he said, was founded in 1890 with the express purpose of collecting plants from all over the world to test them for hardiness and usefulness. Mr. Buckley expressed surprise that more nurserymen do not call on the arboretum for assistance.

Observations of a city arborist were provided by G. A. McNair, city arborist, Hamilton, Ont. The silver maple and American elm are the two trees with which the city of Hamilton has the most trouble, he related. Trees are needed which will not disrupt sidewalks, clog sewers or injure power lines. He expressed the belief that it is better to remove a bad planting of trees before they cause trouble. One of the most wasteful acts, he believes, is the destruction of topsoil, for it cannot be replaced without removal from some other place.

F. E. Martin, Cedarvale Tree Experts, Ltd., Toronto, Ont., talked on what tree nurseries should grow. Many nurserymen produce fast-growing trees for a quick return on their money, he said, selling more Norway maple trees than any other variety. In Montreal nothing but Norway maple is being planted, which is a grave mistake, he opined, for a planting of one variety can be destroved by disease.

Friday morning, films were shown on the operation of the Gill soil pulverizer and the Bolens Ridemaster tractors.

#### Insect Pests

Acquainting the nurseymen with the insect picture in Canada, Dr. H. B. Goble, Ontario provincial entomologist, Guelph, Ont., related that 223 nurseries are registered in the province of Ontario, which is a considerable increase from previous years. The fruit grower, he related, has three complaints — the pear leaf blister mite, controlled by a dormant spray of lime-sulphur; the bud moth (on apple trees), controlled by spraying with malathion or parathion the last week in July,

and the peach-tree borer, controlled with a DDT spray applied about July 24 and August 11 at ground level

Oyster-shell scale, he said, can be treated with a DDT spray during the first part of June. Black cherry aphis particularly affects sweet cherries, and a dormant spray can be used. Malathion wettable powder has worked to good advantage, he reported.

Switching to ornamentals, Dr. Goble said there still is not an insecticide which will not injure certain ornamentals, but DDT and malathion come the closest. Using a combination of DDT and malathion, he suggested spraying about the middle of May, the first week in June and the first week in July. But, he warned, certain ornamentals cannot take malathion. If a nurseryman sprayed for juniper scale last year, he suggested repeating the treatment again, as a small amount of infestation will remain. A malathion spray at the end of May

and the first part of July, when the scales hatch, is recommended.

There is an indication that nurserymen might encounter considerable trouble with juniper webworm next spring, he warned. DDT and parathion can be used effectively, he advised, as soon as the weather warms up.

Another insect to watch for is taxus weevil, which can be treated with dieldrin. The beetles come out at the end of June, and the ground should be sprayed with the insecticide at that time.

#### Workmen's Compensation

Serving as chairman of the afternoon session on Friday, Mr. Luke introduced A. J. Robinson, of the workman's compensation board, Toronto, Ont. Mr. Robinson stated that the act was not compulsory to nurserymen and their employees, but was inexpensive insurance. The assessment for the nursery industry is 75 cents per \$100 of payroll, with a maximum assessment on a salary

# **EVERGREENS**

for Spring, 1955



Grafts, Liners, 1 and 2-yr. beds Finished Stock, B&B

Ask for Special List

# THE PAUL OFFENBERG NURSERY CO.

COLUMBUS 13. O.

Order early to avoid disappointment.

#### GROUND COVER PLANTS

HANSEN BROS. NURSERIES, INC., (Formerly Hugh B. Barelay)

## NARBERTH, PA.

## EVERGREENS SEEDLINGS AND TRANSPLANTS

Free Price List and Planting Guide.

FLICKINGER'S NURSERY
Box 6 Sagamore, Pa

## PRIVET and BERBERIS

Splendid Stock
Write for Special Quotations
LESTER C. LOVETT
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# **HEDGE PLANTS** — ASPARAGUS

## For Immediate or Later Delivery, as Desired

LIGUSTRUM ovalifolium (California Privet)	Per 10	Per 100	Per 1000
9 to 12 ins., 2 canes or more	1.20 1.40 1.85	\$ 7.00 10.00 12.50 16.00 22.50	\$ 55.00 80.00 95.00 145.00 200.00
LIGUSTRUM ovalifolium variegatum (Golden Privet) 18 to 24 ins., 3 canes or more 2 to 3 ft., 4 canes or more		60.00 75.00	****
LIGUSTRUM ibolium (Ibolium Privet) 9 to 12 ins., 2 canes or more 12 to 18 ins., 3 canes or more 18 to 24 ins., 3 canes or more 2 to 3 ft., 4 canes or more	1.20	7.00 10.00 12.50 16.00	60.00 90.00 105.00 145.00
LIGUSTRUM ibota (Border Privet)   18 to 24 ins., 3 canes or more 2 to 3 ft., 4 canes or more 3 to 4 ft., 6 canes or more	4.50	30.00 40.00 50.00	****
LIGUSTRUM ibota regelianum (Regel Privet) 12 to 18 ins., 3 canes or more 18 to 24 ins., 3 canes or more 2 to 21/2 ft., 3 canes or more	3.50 4.50 5.50	30.00 40.00 50.00	

We are the largest growers of asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

#### Mary Washington Asparagus

			Per	Per	Per	Per
			25	100	250	1000
3-yr.,	No.	1	 \$1.25	\$4.00	\$8.75	\$30.00
2-yr.,	No.	1	 . 1.00	3.00	5.75	20.00
1-yr.,	No.	I	 75	2.50	4.25	14.00

Write for special prices on quantity lots of these items. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

FREE PACKING FOR CASH WITH ORDER. Our regular Wholesale List offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

# BUNTINGS' NURSERIES, INC. SELBYVILLE, DEL.

of \$4,000. There is a higher rate of \$3 per \$100 for tree surgeons. If an employer wishes to be included, he can specify any amount between \$1,200 and \$4,000 and be assessed on that sum.

Box 3

Regarding the benefits, he said, it is necessary to report an accident within three days. All medical bills will be paid and up to 75 per cent of an employee's salary will be paid, or a maximum of \$3,000 per year. For permanent disability a person is paid in the form of a pension for life. For death a pension is paid to the widow for life or until remarried. If an employer is covered by the act, he said, an employee cannot sue the employer for damages.

#### How to Sell Stock

Tips on how to sell nursery stock was the theme of the last session on Friday afternoon. Mr. Torgeson gave an agent's point of view, explaining the cash collection in advance system which he originated. It is necessary to deliver fast-growing stock and not get cancellations on orders, meaning that the stock will have to be carried over.

At a low cost salesmen can be bonded and can accept cash deposits with orders. Currently, said Mr. Torgeson, his salesmen will not accept orders unless 25 per cent of the

#### HOLLIES

One of the most complete collections of the better named evergreen hollies in the country.

American English Chinese Japanese

Available in 3 to 6-inch pots. Send for Trade List.

## ANGELICA NURSERIES

Growers of fine plants

R. D. I MOHNTON, PA.

order is collected in advance. With this payment in advance, the customer gets a 5 per cent bonus of nursery stock. His salesmen are averaging 50 per cent payment in advance, Mr. Torgeson reported. To make certain all orders are turned in, there is wording on the order blank requesting the customer to complain to the home office if an acknowledgment is not received in 10 days.

Mr. Torgeson said it is a problem to make salesmen more efficient, so they can earn enough in commissions to remain with the company. Refresher courses, the study of books and the constant checking of sales material are all necessary to improve the salesmen's efficiency.

Clarence Vanderbrook, research

## **EVERGREENS**

300 acres of choice Evergreens ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.

ROCKY HILL, CONN.

## -QUALITY LINERS-

Annua a merin	110
Dwarf Mt. (Mugho) Pine 3 to 5 ins., T., 4-yr	Per 100
Canadian Hemlock	
4 to 8 ins., transplants	. 17.50
Colorado Blue Spruce	
5 to 10 ins., transplants	. 20.00
Pink-flowering Dogwood	
6 to 10 ins., 1-yr, grafts	. 65.00
10 to 15 ins., 1-yr. grafts	
Send for new Spring List.	

## POSSUM HOLLOW NURSERIES

6327 Magnolia St. PHILADELPHIA 44, PA.

NORTHERN COLLECTED EVERGREENS
FERNS

SHRUBS
WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

## SPRING SPECIALS

Euonymus fortunei vegetus, 3 and 4-yr., B.R. Add 25c each B&B. Heavy, welltrimmed specimens.

				Each	Each	Each
				1109	10 to 49	50 to 249
9	to	12	ins	\$1.50	\$1.25	\$1.00
12	to	15	ins	1.75	1.50	1.25
15	to	18	ins	2.00	1.75	1.50
18	to	24	ins	2.50	2.25	2.00

Berberis thunbergi atropurpurea, wellbranched, 2-yr., heavy, not transplanted.

										P	or IUU	Per 1000
Lin	ers	, 6	ins							.\$	7.50	\$ 50.00
6	to	9	ins				,		,		10.00	75.00
9	to	12	ins	×				,			12.50	100.00
12	to	15	ins		×	*					15.00	125.00

Rosa multiflora japonica, thorny, 1-yr. Conservation Grade

			P	er 1000	Per 10,0	00
6	ins.	and	up	\$20.00	\$16.00 per	1000
9	ins.	and	up	25.00	20.00 per	1000
12	ins.	and	up	30.00	25.00 per	1000
15	ins.	and	up	35.00	30.00 per	1000

Write for new Trade List which includes shrubs, roses, evergreens, ornamentals and fruits.

## BROWN BROTHERS CO. EAST ROCHESTER, N. Y.



## PRINCETON NURSERIES

A very complete line of Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

#### PRINCETON NURSERIES

Ph. Princeton 1-1776 PRINCETON, N. J.

## PINE SPRUCE-FIR

## SEEDLINGS and TRANSPLANTS

Write for New Spring List.
Prices as low as \$12.50 per 1000

# ECCLES NURSERIES RIMERSBURG, PA.

#### Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List
W. - T. Smith Corporation.
Telephone 2889 GENEVA, N. Y.

director, nursery division, Commercial Enterprises, Inc., Newark, N. Y., gave much helpful advice on how to sell more nursery stock. He related that he advises his salesmen not to sell or talk about one plant. Rather they should sell ideas and talk about the association of plants. All of the training of salesmen is done along visual selling lines.

Mr. Vanderbrook said that his company starts training its salesmen as simply as possible. After a few days of training they are taken out into the field. First the salesmen are taught four types of shrubs—entrance, underwindow, facer and corner shrubs. There are six types in each category, he added. The salesmen are given confidence and told that anyone who can draw a line can draw a landscape plan.

The first six weeks is the critical period in a salesman's life. If he survives this, the salesman is then given a refresher course. To boost his morale and give him confidence, a model of a house and model shrubs and trees are arranged according to a landscape plan drawn by the salesman. At a later refresher course the salesman is shown pictures of plantings designed a year or two previous by a new salesman.

Usually two calls are made on a prospect. The first is a permission call to make a sketch, pointing out how the house can be beautified. Then an appointment is made to see both the husband and wife together. Salesmen are instructed to stick to the point and be brief.

In a final refresher course, the salesmen are advised of the five cardinal rules of good landscape design—focalization, harmony of lines, simplicity, proportion and balance, each being explained.

#### Salesyard Operation

Concluding the discussion on selling more nursery stock was a talk on sales station selling by Frank Mennes, Menno S. Mennes Nurseries, North Tonawanda, N. Y. He said a nursery sales station should be run like a supermarket. The material should be set out neatly and be easily accessible. There is a problem of running the sales station the year round and making it pay. There is a slump the first two or three months of the year. But, he added, this is the time to check on necessities, make up labels, make alterations, etc.

About the middle of March, Mr. Mennes starts potting up roses, soaking them thoroughly and placing them in beds, out of which they are sold. The potting mixture he prefers

## **READY NOW**

## **BROUWER'S NURSERIES**

Box 25 NEW LONDON, CONN.

#### **SPRING DELIVERY**

# Cash with order; 25 at 100 rate. BRIMFIELD GARDENS NURSERY

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245 Brimfield Rd. WETHERSFIELD 9, CONN.

## **ORNAMENTALS**

TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

#### **BRYANT'S NURSERIES**

Princeton, Illinois

## POTTED LINERS SEEDLINGS TRANSPLANTS

Catalog on request.

HEASLEY'S NURSERIES
Freeport Rd. BUTLER, PA.

#### **EVERGREENS**

Quality seedlings and transplants for Christmas trees and forest planting. Write for spring, 1955, price list.

CLEARFIELD BITUMINOUS COAL CORP.

Department of Forests
INDIANA, Indiana Co., PA.

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for

# SHADE'S Central Pennsylvania Grown ROSES

2 years old, field-grown plants

## Spring, 1955 — WHOLESALE PRICE LIST — Spring, 1955

Place Your Order Now for Spring Delivery (PATENTED ROSES CONT.)

PRICES ON ALL STANDARD ROSES No. 1...50c EACH No. 11/2...40c EACH

CRIMSON GLOBY, Deep velvety and crim-AMI QUINARD, Velvety crimson-marcon.
PINK
WME. COCHET-COCHET, Coppery-pink and

reflected gold.

BETTY UPRICHARD, Salmon-pink.

WHITE

A. VICTORIA, Snowy-white and double.

FLORIBUNDA

POULSEN BEDDER, Clear, rich pink.

CLIMBING ROSES

BLAZE, Bright red.

PATENTED ROSES

We offer these roses under license from patent owner. It is understood and agreed that they are for sale at retail only, at or above prices specified. 10 to 20 of one variety at 10 rate; 20 to 250 of one variety at 100 rate. Prices are net.

Each Each Each 10 100 DR. DEBAT
Pat. No. 961—Retails \$2.00 each
Medium pink. 

WRAPPED ROSES

15c each above cost of individual rose. Attractively packed in distinctive yellow, red and blue waterproof bags, tops parafine waxed. Beautiful full-color picture label and planting suggestions appear on each bag.

**EVERGREENS** 

Twice Transplanted—Regularly Sheared
No Boxing or Shipping
Terms: Cash, B&B at the Nursery
Each

| SHIPPING—We red | Shipping instruction | Sh

YOUNG SALABLE EVERGREENS

Grown three years in 15-inch rows planted is inches apart, under irrigation. Splendid young salable evergreens for the cash-and-carry trade of garden shops, roadside markets and nurseries.

1500	Thuja Occidentalis Pyramidalis 30 to 36 ins	Eac. \$2.5
2500	Juniperus Chinensis Pfitzeriana 12 to 15 ins	1.2
1500	Juniperus Excelsa Stricta 12 to 15 ins	1.2
2000	Juniperus Giauca Hetzi 12 to 15 ins	1.2
6000	Taxus Cuspidata 8 to 10 ins	1.2
5000	Taxus Cusp. Intermedia 8 to 10 ins	1.2
4000	Taxus Media Hicksi 10 to 12 ins	1.0
2500	Thuja Occidentalis Elegantissima 18 to 20 ins	1.5
1500	Thuja Occidentalis Globosa 10 to 13 ins	1.0
1500	Thuja Occidentalis Wareana 18 to 20 ins	

SHIPPING-We request customers to give definite shipping instructions regarding manner in which they wish goods shipped. In the absence of special instructions we use our best judgment, but without assuming responsibility. All shipments travel at risk and Terms and Conditions of Sale: Cash with order; packing at cost. Please order in multiples of 10 plants only.

SHADE'S NURSERY

4907 Orchard St.

Phone—Harrisburg 5-5417

HARRISBURG, PA.

5 Miles East of Harrisburg on U. S. Route 22 Member Pennsylvania Nurserymen's Association - American Rose Society

is one-third to one-half light sandy loam, one-half peat moss and a tablespoon of all-organic fertilizer. Ra-Pid-Gro is added to the roses every two weeks. Mr. Mennes said he urges his salespeople to suggest planting all stock with bone meal and consequently sells a large volume of the fertilizer.

The heeling medium which Mr. Mennes uses in his sales beds is hardwood sawdust. Ammonium phosphate or cyanamide has to be added in summer, and the sawdust is mulched with peat in the middle of summer.

Mr. Mennes places his stock under a lath shade and keeps his sprinklers going practically 18 hours a day. There is a marked tendency for stock to dry out in a salesyard, and he soaks everything before heel-

As the stock is potted up, it can be carried through the summer, he pointed out. But since potted stock deteriorates, a sale is scheduled for summer, being called "two for the

## ILEX CRENATA CONVEXA ILEX CRENATA ROTUNDIFOLIA

2-yr., transplants branched, heavy

Per 100 Per 1000 6 to 8 ins..... \$25.00 \$22.50 8 to 10 ins..... 30.00

**MITISKA NURSERY** AMHERST, O.

money." Then in the fall, the sales station is restocked.

#### Committee Chairmen

Committee chairmen elected at the business meeting include Carl Luck, tariff; L. Jansen, public works; D. McConnell, research; J. McDonald, finance; K. F. Stensson, membership; S. McConnell, representative to the Canadian Horticulture Council and nursery stock inspection; A. B. Luke, transportation; L. Cullen, short courses; F. Brady, ex-

## HARDY PLANTS **Bulbs and Shrubs**

"America's Finest" Write for Trade List

Springbrook Gardens MENTOR, O.

## **TAXUS**

Upright, 4 to 14 ft. Truckloads only, no boxing.

**BULK'S NURSERIES** BABYLON, L. I., N. Y.

VICARY PRIVET

**BEARDSLEE NURSERY** 

PERRY.



#### VIBURNUM LANTANA

good, fill-in shrub

- · very hardy
- transplants well
- · fast growing
- · good texture

Strong, 2-yr. seedlings

Per 100 Per 1000

6 to 12 ins.... \$10.00 \$ 85.00

12 to 18 ins.... 15.00 125.00 18 to 24 ins.... 17.50 150.00

**NEWPORT NURSERY CO. NEWPORT, MICH.** 

hibitions; W. Hoist, entertainment and registration; F. Fidler, bylaws; A. Fitzsimmons, cooperative buying; E. Banting, trade prices; J. H. Eddy, sales tax and plant patents; N. J. Scott, education, and J. E. Shuttleworth, publicity.

Entertainment at the convention included a president's reception Thursday evening, after which many of the nurserymen and their wives went to Buffalo, N. Y., for evening entertainment. The annual banquet concluded convention activities. After the presentation of gavels to past and honorary presidents, some delightful entertainment concluded the

#### WESTERN NEW YORK

[Concluded from page 20]

be taken for several years from such an isolation planting; however, it is advisable to set up new isolation blocks each year. Dr. Brase emphasized that by following the program recommended by the experiment station the grower is eligible for a certificate of inspection.

Henry B. Little, of the New York bureau of plant industry, told of the work of his department during the past year and cautioned the nurserymen of problems which might pose a threat to nursery crops during 1955. He thanked the nurserymen for their continued cooperation with the bureau on these problems.

Prof. L. H. MacDaniels, head of the department of floriculture and ornamental horticulture at Cornell, briefly discussed the existing facilities at the university for research in the various phases of plant science and related fields and described the preliminary plans for expanded facilities necessary to maintain a pro-gressive research program. Dr. William E. Snyder spoke on the plant propagation workshop and invited nurserymen interested in the use of mist for rooting cuttings to attend the workshop.

Presentation of an excellent slide projector was made to Al Syneseal, the outgoing president, in recognition of his meritorious job as head of the association. He expressed his appreciation, not only for the gift, but also for the cooperation given him by the members of the association during his term of office.

INCORPORATED December 1, 1954, the Paul Offenberg Nurseries now go under the name of the Paul Offenberg Nursery Co., Columbus, O., the management remaining the same.

## MAGNOLIA SOULANGEANA

5000 3 to 4 ft.

well branched and well budded

\$ 45.00 per 10 400.00 per 100

30 trees at the 100 rate

## CHANDLER LANDSCAPE & FLORAL CO.

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#### SPECIAL NOTICE!

We have a few hundred of each of the following native-grown, well-headed shade trees in Green Ash, White Birch, Rubrum Maple, Pin Oak and Sweet Gum.

8	to	6	ft	B.R						*									.1	Each
6	to	8	ft	B.R																1.46
8	to	1	0 ft.,	B.R.						*		×						×		4.06
1	to	1	1/2 - in.	cal.,	E	8	H	3.							×				*	6.0€
1	1/2	to	2-in.	cal.,	B	8	E	3,					į.							7.56
2	to	21	1/4-in.	cal.,	B	8	Ł	3.					×						×	9.50
2	1/4	to	3-in.	cal.,	B	8	E	3.							,					12.56
3	-in.	C	al. ar	nd up	(	ir	1	le	t	8	0	of	•	1	0	0	)		× 1	. 15.00

These prices are all F.O.B. shipping point.

A few hundred 4 and 5-year-old Apple trees in leading varieties, bare root. 1-in. cal. ......

Flowering Crab Apple, bench root grafts, P. R., \$10.00 per 100. French Lilac, bench root grafts, \$15.00 per 100.

Multiflora Roses — 50,000 3-year-old, extra-heavy, \$50.00 per 1000. A general line of grafted Junipers in 4 to 8 ft., shrubs, etc.

EGYPTIAN NURSERY & LANDSCAPE CO.
FARINA, ILL.
Day Phone 3551
Night Phone 2641

## HEMLOCK

Rhododendron-Kalmia

Azalea

**CURTIS NURSERIES** 

CALLICOON, N. Y.

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#### LONG ISLAND SCHOOL

[Continued from page 27]

should be recognized by the competent businessman. Some of these are: Advertising, contacting of customer (calls and interviews), planning, estimating, selling, financing, collecting, rent, insurance and other overhead.

The common assumption that a 100 per cent markup in the sale of a plant is a fair price is fallacious, said Mr. Dalsimer. It does not represent a 100 per cent profit and is a giveaway of contingent services if the material is planted by the seller. By way of example the following transaction was cited:

Cost of plant material\$ Charge for assembling material.	470.00
100% markup	500.00
Fair price\$1	,000.00
Add other service charges:	
10% delivery charge\$	100.00
25% planting costs	250.00
5% materials for planting	50.00
5% cleanup	50.00
10% planting guarantee	100.00
Actual total is three times	

the original price .......\$1,500.00

A uniform policy of plant guarantees would help the nurserymen. Weak guarantees instill a lack of confidence in customers, and holdout of payments is a result. Mr. Dalsimer said his guarantee policy has actually cost no more than four per cent in operation. Of course, such a guarantee is valid only if the planting is done by the nurseryman.

#### Tools for Estimating

Experience has proved that when a customer has a clear understanding of just what a landscape job involves and when prices are clearly quoted by units, there is much less chance of misunderstanding when the bills are presented. Rather than quote a lump sum price for an extensive job, it is advisable to divide it into sections. In this way it is not so staggering and also opens the way to progressive development of a property over several years. In such a progression, lawn work and specimen tree planting are accom-plished first, followed by foundation planting, boundary planting, screen planting, other groupings, herbaceous plantings and accessory and garden ornaments.

The Dalsimer estimator makes use of prepared price lists and Surtee's charts, which with conversion factors are used to make up unit prices for all phases of work. Prepared estimating sheets are used for each job, a separate sheet for planting, lawn operations and masonry work. These three operations, plus any

Special Prices to the Trade

## VIBURNUM BURKWOODI

(Gardenia-scented Snowball)

For spring delivery, F.O.B. Dayton, O. Own-root—Lining-out size in plant bands.

Per 50 \$15.00				-	5	-	-	-						Per 1000 \$225.00
18 to 24 ins., B.R.														Per 100 \$ 85.00
18 to 24 ins., balled									,				. 15.00	135.00
2 to 21/2 ft., balled			*							*	×		20.00	
21/2 to 3 ft., balled												*	. 27.50	250.00

## VIBURNUM CHENAULTI

More evergreen and compact growing, same flowers as Burkwoodi. Own-root—Lining-out size in plant bands.

Per 50 \$17.50	Per 100 <b>\$30.00</b>	Per 1000 \$250.00
18 to 24 ins., B.R	\$12.50	Per 100 \$110.00
	17.50	
		210.00 275.00

## The Siebenthaler Co.

3001 Catalpa Dr. DAYTON 5, O.

#### "CRIMSON PYGMY" DWARF RED BARBERRY

The new, sensational shrub for ranch-house landscaping, dwarf hedges, potting and B&B sales.

THE COTTAGE GARDENS

LANSING 15, MICH.

## **NEOSHO NURSERIES COMPANY**

Neosho, Missouri

Send want list for prices on roses, evergreens, shrubs, fruit and shade trees. Hybrid Elm a specialty.

Hydrangea P. G. Hydrangea P. G.(Tree Form) Ornamental Trees Grapevines, 1-yr.

Thorne Brewster

## WILLOWBEND NURSERY

PERRY, O.

#### QUALITY LINERS

(free packing) Per 100 Per 1000
Green Barberry, 2-yr. S., 25.00 \$40.00
Viburnum Iantana, 1-yr., 8., 6 to 9 ins. 6.00 50.00

CARLETON NURSERY CO.
Jones Rd. CARLETON, MICH.

#### REMEMBER SHERMAN'S for . . .

Alpine Current Hydrangea P. G. French Lilacs Snowbell Shade Trees Evergreens Phlox Peonies Plum Seedlings Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.

CHARLES CITY, IA.

Over 100 Years' Nursery Experience

## ILGENFRITZ

NURSERIES, Inc.
The Monroe Nursery
MONROE, MICHIGAN

## **EUONYMUS AND** COTONEASTER

Particularly nice plants which benefited by our 15.2 inches of rainfall in June, July and August.

Each	at	Eac	h	ai
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2-уг.,	pots			0.22	\$0.20
4-уг.,	T., 8	to 10	ins	.40	.35

#### **EUONYMUS RADICANS ERECTUS**

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*3-yr.,	T.,	12	to	15	ins	.45	.40
*3-vr	T.,	15	to	18	ins	.65	.60

#### COTONEASTER APICULATA

2-in.	pots								*	.25	.22
*3-yr.,	T.,	he	a	vy	١.					.60	.55

\*The largest of these varieties are suitable for Cloverset potting or cans.

Quick shipment late winter or spring. Bare-root. Minimum order 50 plants of a variety, 100 plants total. Usual catalog terms.

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			Per 100	Per 1000
Heavy, 1-yr.,	field	plants	.\$18.00	\$170.00
Medium grade			. 15.00	140.00
Well-rooted co	tting		. 5.00	45.00

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Wayside (1)



miscellaneous items, are totaled on a summary sheet. The name of the client and the plan number is marked on each sheet. This data eliminates much lost effort in assembling materials.

Lawn work is the most difficult phase of landscape where customer satisfaction is concerned. Under Long Island weather conditions. guarantees are not warranted unless the work is done at the proper time of year. Unit prices are quoted on a sliding scale, approximately 5 cents per square foot on areas of 15,000 square feet or over and as high as 10 cents per square foot on areas under 500 square feet. The price includes soil preparation, grading, lime, fertilizer, grub proofing and seeding with a high grade of seed. First cut and patching are important, but are done only if the job is paid for at the time of finish of the planting. Prompt settlement of lawn accounts should be sought after, because future neglect by the owner can quickly ruin a new lawn. In some cases maintenance may be contracted for.

Mr. Dalsimer's presentation was followed intently by all who were present, and appreciation was expressed for his fine presentation of an important subject.

Peter Bosle presented data based on his observation of roses in the test gardens of the Long Island Agricultural and Technical Institute during the past two years. The data has great validity, since it is the result of daily observation throughout the growing season. During the peak season as many as 60 hours a week were needed to encompass all of the work. Observations were confined to the modern hybrid teas and floribunda roses.

Most roses are sold to the public on the basis of the flower appearance. An advertising illustration indicates the size, shape and color of a new variety, and even in demonstration gardens these are the obvious appeals to the casual observer. Some popular varieties may fall far short of perfection when other factors are considered. In bright sunlight some varieties may not retain good color for more than a day, while others may last for three or four days. Some varieties break out of the bud rapidly, and others hold for two days. A scant blooming variety may average ten or less blooms per month, while a productive one may bear 20 or 30 flowers. Among roses for garden planting it is the variety which bears an abundance of long-lasting flowers that is most satisfactory. Mr. Bosle presented

## SEEDLINGS FOR SPRING

SEEDLINGS LOW	2LK	ING
	Per	Per
Variety, age and size Scotch Pine, 2-yr.,	100	1000
2 to 4 ins	\$ 2.00	\$10,00
4 to 8 ins	4.00	20.00
Riga Scotch Pine, 2-yr., 2 to 4 ins	3.00	15,00
Riga Scotch Pine, 2-yr., 4 to 8 ins	5.00	25.00
Austrian Pine, 2-yr.,		
3 to 6 ins	4.00	20.00
2 to 4 ins	3.00	15.00
4 to 6 ins	5.00	25.00
Mugho Pine, dwarf; 3-yr 2 to 5 ins	5.00	25.00
White Pine, 2-yr., 3 to 6 ins. Norway Spruce, 2-yr.,	4.00	20.00
2 to 4 ins	3.00	15.00
Norway Spruce, 2-yr., 4 to 7 ins	5.00	25.00
White Spruce, 2-yr., 2 to 4 ins	3.00	
Red Spruce, 2-yr., 3 to 6 ins.	4.00	15.00 20.00
Black Hills White Spruce, 2-yr., 3 to 8 ins	4.00	20.00
Blue Spruce, Colorado, 2-yr., 2 to 4 ins	4.00	
Donglas Fir. 2-vr.		20.00
3 to 5 ins	4.00	20,00
		25.00
SPECIAL SEEDII Mugho Pine, 4-yr.,	NG5	
7 to 10 ins	11.00	55.00
6 to 10 ins	6.00	30.00
Norway Spruce, 3-yr., 5 to 10 ins	8.00	40,00
White Spruce, 3-yr., 4 to 8 ins	8.00	40.00
Red Spruce 4.vr		
6 to 10 ins  Blue Spruce, Colorado 3-yr., 3 to 6 ins	8.00	40.00
	8.00	40.00
2-we 6 to 10 inc	8.00	40.00
Austrian Pine, 3-yr 6 to 10 ins	8.00	35.00
TRANSPLANT	S	
Scotch Pine, 2-1, 3 to 6 ins	6.00	30,00
Scotch Pine, 2-2, 5 to 10 ins. Austrian Pine, 2-2.	10.00	50.00
8 to 10 ins	9,00	45.00
5 to 10 ins	8.00	40.00

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selected lists showing the best varieties and, for comparison, a few of the poorest performers in each of the major color groups of the hybrid tea and floribunda roses. This material will be published in entirety at a later date. Copies of his evaluations may be had by writing to the department of ornamental horticulture of the Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

#### MARYLAND MEETING

[Concluded from page 16]

excellent seedling camellias growing along the seaboard that had successfully withstood temperatures from 10 to 20 degrees below zero Fahrenheit. These include both the sasanqua and japonica types. Dr. de Vots stated that the camellias most satisfactory along the Atlantic coast were those that bloomed early (late September to mid-November) or late (mid-March through April).

The last talk of the afternoon was by Carl N. Johnson, university department of horticulture. He discussed landscape problems with special reference to split-level and ranch-type homes. The talk was illustrated, and emphasis was placed on the types of nursery stock best suited for tying the landscape planting to the lines of the house and the proper use of shade trees in the back yard for harmonious and pleasing effects.

During the evening of January 12 there was a social get-together for the nurserymen, their wives and friends. This was highlighted by a buffet supper and mixer at which coffee, sandwiches, dessert and punch were served. With John Donofrio as master of ceremonies, the group was entertained by three 4-H Club girls from Baltimore county, Clara Hendrix, Marjorie Hanna and Norma Rosier. Warren Johnson, university entomologist, aided with the entertainment as the song leader. Following the entertainment, Carville Akehurst, Jr., Akehurst Nursery, Fullerton, presented a movie he made on a tour of nine European countries; it showed many beautiful gardens and scenes from Italy, Greece, France, Switzerland, Holland and England.

JOHN B. WIGHT, JR., joined his father's firm, Wight Nurseries, Cairo, Ga., January 1, upon dis-charge from the air force after four years' service. He represents the third generation of his family to be connected with the management of the 68-year-old firm.

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30	to	36	ins.			. *				4.00
36	to	42	ins.							5.00
42	to	48	ins.							6.00

Above prices B&B. Prices of bare root on request.



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9 to 12 ins., \$25.00 \$225.00 12 to 15 ins., 35.00 325.00 300 or more at 1000 rate. 30 or more at 100 rate.

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A West Virginia reader writes in part as follows: "Will you please give us a list of about 10 plants suited to a sunny wall? I have a nice planting job this spring calling for about 100 wall plants, and, as there is a regular rash of wall gardens in this section, I think we will propagate about 10 kinds for future sales." The job will be a pleasant one for me, because alpines and rock plants are my special loves, and, since rock gardening took such a beating from the Johnny-come-latelies about 15 years ago, I see far too little of them. So. when I have a chance to say a good word for any of the clan, it makes

The first step in the inquiry will be taken among the campanulas. There is found one of the most generally useful of all ornamental perennials, Campanula carpatica. În the climate of West Virginia, it might suffer if planted in a dry wall in full sun without provision for watering in dry weather; as most modern gardeners have such provisions, one may assume that my correspondent can use the plant in his work. The Carpathian harebell needs no introduction for American Nurseryman readers, its happy disposition and long-flowering period being known even to beginners. Observation in nurseries indicates, however, that its named forms are seldom grown.

If nurserymen do not know its better named varieties, it might pay them to investigate the following: Harmony, medium blue, flat flowers; Loveliness, light mauve, nodding flowers; Purple Carpet, upturned saucers of blue purple, freely produced on 6-inch stems instead of the foot-tall stems of ordinary carpaticas; Queen of Somerville, large, cupshaped flowers of blue violet on stems to 15 inches in height; Viscountess Byng, pale blue flowers, really immense for a carpatica; Blue Carpet, recently commencing to appear in lists, apparently some-what like Purple Carpet, with the same gratifyingly long (June to late September) blooming period and perhaps a slightly lighter shade of blue in the flowers, though I have not been able to verify the latter by comparison.

Named forms of campanula must

be grown from cuttings to obtain true stock; in fact, all bellflowers, except the biennials, are grown best from cuttings, when uniform plants are wanted. And practically all may be grown from cuttings of preflowering wood (April, May and June, as available). These should be stopped after root and top growth become active to prevent flowering.

The Persian candytufts are among the best of wall plants in my estimation. That is true from almost any angle one views them. First, from the viewpoint of foliage, they are, with the exception of Aethionema warleyense and its sports, among the loveliest of blues, even lovelier

than many plants in bloom. The better ones are really spectacular when the little bushes are hidden under a canopy of flowers, shades of pink in the wanted kinds. Finally, for the busy gardener in sections where summers are dry, their ability to prosper under the most trying conditions of drought and neglect is of great importance. Of course their height of four to eight inches exactly fits them for wall planting.

#### Confusion of Candytuft Names

Their names are so confused that they mean little. Then, too, the habit of interbreeding when brought together in gardens has contributed

#### ASPARAGUS-RHUBARB-HORSERADISH ROOTS ASPARAGUS

Paradise and Washington	Per 100	Per 1000
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2-yr., No. 1	3.00	20.00
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VICTORIA RHUBARB		
Clumps	. 15.00	120.00
1½ to 2 ins., whole roots	10.00	80.00
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1/2 to 3/4 in., whole roots	. 4.50	30.00
HORSERADISH Per 10	Per 100	Per 1000
Cuttings, 4 to 6 ins	\$3.00	\$20.00
Whole roots	6.75	45.00
	0.73	43.00
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much to the confusion. It has all reached the point where there is little use trying to grow a lot of uniform plants from seeds. It is lucky for nurserymen, then, that they root readily when cuttings of growths are rubbed off with a heel, following the flowering period. A. warleyense and its forms are sterile hybrids and have to be grown from

Because the madwort, Alyssum saxatile, can also take care of itself under the same trying conditions of drought and neglect, it, too, is loved of busy gardeners. It has other recommendations, of course, including a profusion of golden flowers on 10-inch stems in spring. It comes readily from seeds and lasts for years in sunny, well-drained situations. The double-flowered form must be grown from cuttings, preferably soft ones taken in June and early July, inserted in sand or a sand-topped frame.

There are so many pinks suited to the dry, sunny wall that I am at a loss in making a choice. On second thought, I shall not make a choice at all, but shall name a few of the better wall kinds and let my inquirer make his own choice.

When Dianthus caesius came to mind as one of the likely candidates for a post, something prompted me to check on the name before committing myself. The check revealed that an American authority tells men in the nursery industry that it should be called D. gratianopolitanus (where is the sane gardener who would use that name after he had become accustomed to the consonance of caesius?); some European authorities say that the Linnaean name glaucus is right; gardeners prefer the familiar caesius.

I throw my lot in with the gardeners, "and let the botanists do what they will in their dusty herbaria," as Ingwersen puts it. There must be a stop somewhere in this frequent changing of names, if gardeners are to retain their sanity, and it seems to me that now is as good a time as any. After this, I shall use the names which have become thoroughly established in gardens, with perhaps some reference to the synonomy if known to me, until such time as the new names have been generally accepted.

The pinks that I should suggest in this connection are Dianthus caesius, D. deltoides, D. nocanus, D. superbus and D. Little Jock hybrids.

## Try Seeding Baby's Breath Early

The dwarf baby's breath, Gypsophila repens, would, I suspect, find

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	100	1000	10,000
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Colorado Blue Spruce, 3-0, 5 to 10 ins	10.00	65.00	
White Spruce, 3-0, 3 to 5 ins	4.00	20.00	
White Spruce, 3-0, 5 to 10 ins	8.00	40.00	
*Riga Scotch Pine, 2-0, 4 to 8 ins.	7.50	26.00	\$24.00
*Riga Scotch Pine, 2-0, 2 to 31/2 ins	3.00	14.00	12.00
*Riga Scotch Pine, 2-0, 6 to 10 ins	8.00	36.00	35.00
*Riga Scotch Pine, 2-0, 3 to 6 ins	5.00	22.00	21.00
Austrian Pine, 2-0, 3 to 6 ins	6.00	20.00	20.00
Austrian Pine, 2-2, 8 to 12 ins	12.00	90.00	
Mugho Pine, 3-0, top sheared to about 3 ins	5.00	30.00	25.00
Douglas Fir, Rocky Mt. type, 2-0, 3 to 8 ins	6.00	28.00	25.00
Douglas Fir, taxifolia glauca, 2-2, 6 to 9 ins taxifolia glauca, 2-2, 9 to 12 ins	10.00	75.00 125.00	

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Arborvitae, Aurea Nana Arborvitae, Dark Green American Berberis Mentorensis Birch, Weeping Cut-leaved Cornus Florida Cotoneaster Divaricata Cotoneaster Opiculata Crab Apple, Flowering **Euonymus Alatus Compactus** Euonymus Patens Euonymus Vegetus Juniperus Canaerti Juniperus Columnaris Juniperus Glauca Juniperus Keteleeri Juniperus Pfitzeriana Maple, Silver Privet, Amur River North

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a place in most gardeners' plans for clothing a dry, sunny wall. Because it is difficult to transplant after it has attained much size, most commercial growers, especially neighborhood nurserymen who sell plants while in flower, stay away from the dwarf baby's breath. If nurserymen have had trouble in that respect, they might try seeding it early, transplanting as soon as the first true leaves appear into rose pots, from which they are sold before the plants become too large.

Evergreen candytuft, Iberis sempervirens, is another natural plant for the present purpose, being indestructible in the well-drained soil of a sunny wall. As it has no eccentricities, no more need be said about it. If one wants to go farther afield in the candytufts, try any of the perennial kinds which appear in catalogs under all sorts of names, knowing that they are sure to make intriguing wall ornaments.

Because Nepeta mussini is one of my favorite herbs, I should have been greatly disappointed if it had not responded to wall treatment when we tried it in a south wall some 30 years ago. But it did respond, and nobly, and has since been one of my favorite, sunny wall plants. As Mrs. Wilder's description is better than I could do, it is given here: "It makes a mist of gray, tumbling branches and lavender spikes, from the time the tulips blossom pretty well until frost, if given an occa-sional clipping." Cuttings, taken in spring, root with ease in an outdoor frame, blooming the first year if allowed to do so. Incidentally, I understand that some botanists call it N. faasseni.

Trailing soapwort, Saponaria ocymoides, which was fully treated in a recent note in this column, does not need further comment now, except to give it a place in the 10 plants for a sunny wall. Take cuttings of new growths in July or August, insert them in an outdoor frame and put on sash before really cold weather arrives. They will be ready to sell the following spring. Of course, S. ocy-

## **NORTHERN-GROWN EVERGREENS**

F	Per 100	Per 1000
Riga Scotch Pine, S	\$ 2.50	\$ 15.00
Riga Scotch Pine, T., (2-1), 4 to 9 ins	4.50	38.00
True Dwarf Mugho Pine, T., (2-2), 3 to 5 ins		65.00
Dwarf Alberta Spruce, T., (2-2), 4 to 8 ins		* * * *
Juniperus glauca hetzi, T., (2-2), 8 to 15 ins		
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Colorado Blue Spruce, T., (2-2-2), 6 to 10 ins	13.50	125.00
(These Colorado Spruce are bushy and heavy to goo	d blues	.1

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Andorra Each per 100 per 1000
4-yr., 6 to 9 ins. ... .50, 45
4-yr., 9 to 12 ins. ... .55

TAXUS

Cuspidata, 6 to 9 ins. and 9 to 12 ins. Thayeri, 6 to 9 ins. Hatfieldi, 6 to 9 ins. 5-yr., 6 to 9 ins. 5-yr., 9 to 12 ins.

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Vulcan, double, red.

Vulcan, double, red.
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Bluespire Arborvita																
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Sylvestris Juniper		×		×		2.	 *		×			×				. 20
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Some growers to whom I talk take exception to my enthusiasm for the stonecrops, but I go merrily on my way extolling their virtues and vices, if any. Some are spreaders, to be sure, and should be kept away from choice situations; others are as restrained as the most repressed and are safe anywhere. I should dislike to make a single choice among all the plants in this class; so let me name a few, any one of which would fill the present requirements: Saponaria ellacombianum; S. middendorfianum, especially lovely when its

S. tartarinowi.

I purposely left the sun roses for the last, not because they are last

leaves take on their bronzy tinges;

S. hispanicum minus; S. lydium;

in point of desirability, but rather because I wanted to be sure to have them in the list and thought it safest to let them have 10th place. The species holds little interest to the general gardener at this late day, the fine named varieties having long ago usurped first place in the popularity poll. The availability of the named kinds varies so much from year to year that mention of them here before the 1955 catalogs are in would probably be little more than an aggravation. I am sending the inquirer a short list of kinds which were available in the east last fall; if nurserymen are interested and will drop me a card, I shall try to supply them a list available at the time of inquiry. Greenwood cuttings should be made in early summer.



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THORNDALE IVIES are strong, vigorous growers. Excellent climber and equal ground cover plant. They are grown in 2½-inch pots in outdoor frames. Their undisturbed root system assured rapid growing on and makes transplanting practical even during the hottest summer months. hottest summer months,



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## Wholesale Prices \$30.00 per 100

Orders are booked according to date received. Our shipping season begins April 15. Terms are cash with order un-less credit has been established. All prices, F.O.B. Woodstock, Illinois.

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#### INDIANA CONFERENCE

[Continued from page 13]

ture and contrasting the amounts spent annually for cosmetics and for ornamental horticulture. Ornamental horticulture has not been receiving promotional support or research attention proportional to its place in the economy of Indiana agriculture. Although Indiana compares favorably with the national average in money spent for ornamental horticulture, this compares poorly with amounts spent for many nonessential items. The field is wide open for development if the public is only educated to be half as observant of home surroundings as the wife is of the latest styles in automobiles or appliances, clothing or shoes. Nurserymen have a wonderful product to sell, but they must sell it.

#### Display Euonymus

Henry Schnitzius, New Augusta Nursery, New Augusta, described the euonymus group as plants answering many important requirements. An exhibit of some sixteen typical specimen euonymus plants was on display in the conference room for the three days, identified only by numbers. Mr. Schnitzius passed out contest sheets and urged all present to try identification of the various euonymus varieties or forms. A prize was promised to the winner. W. E. Cunningham, Cunningham Gardens, Waldron, followed with colored slides of euonymus in established landscape plantings. This illustrated talk was the result of a year of preparation, and many fine old specimen plants were shown.

Dr. W. K. Leslie, superintendent, Dominion experiment station, Morden, Manitoba, brought in Kodachrome the beauties of ornamental horticulture in Europe and the British Isles to an attentive audience.

A panel discussion on labor-management relations by Argel Pion, Harold Bohling, Henry Schnitzius and Alex Tuschinsky emphasized the need for offering maximum yeararound employment. A number of forms of pay incentives had been tried, but each had its failings. It was agreed that the best incentive was the personal relationship between nurseryman and employee and the development of interest in the plant materials and the job.. If employees are expected to be efficient and productive, the employer must see that all work is thoroughly planned in advance and the supplies and equipment are on hand so that there need be no delay. Employees quickly sense any lack of proper organization, it was pointed out. They

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4 to 6 ins	3.50	Per 1000 \$ 30.00	
Norway Spruce, 4 to 6 .	3.50	30.00	
White Spruce, 6 to 8 ins	$3.50 \\ 3.00$		
Douglas Fir, 4 to 6 ins	3.50	30.00	
Mugho Pine, Dwarf Tyrolean, sheared, 4 ins.	4,00	35.00	
White Pine, 4 to 6 ins	3.00	25.00	
Scotch Pine, Riga 6 to 8 ins.	3.50	28.00	
Austrian Pine, 6 to 10 ins.	3.50	30.00	
Ponderosa Pine, 8 to 12 ins	3.50 3.00	30.00 25.00	
American Arborvitae 4 to 8 ins	3.00	25.00	
2-YR. SEEDLIN	IGS		
American Arborvitae	2.50	20.00	
Colorado Blue Spruce 3 to 4 ins	3.00	25,00 20,00	
White Spruce	2.50	20.00	
Black Hills Spruce 2 to 4 ins	3.00	25.00	

Norway Spruce, 2 to 4 ins. 3.00

Scotch Pine, 2 to 4 ins... 2.50 Austrian Pine, 2 to 4 ins. 3.00

White Pine, 2 to 4 ins.... 2.50

Ponderosa Pine,

25,00

18.00 25,00

20.00

25.00

20.00

TRANSPLANTS, 2-2,	4-YR.
Mugho Pine. Tyrolean sheared, 4 to 6 ins 25	5.00
American Arborvitae 12 to 15 ins	2.00 100.00
Norway Spruce 10 to 12 ins	2.00 100.00
Colorado Blue Spruce 6 to 8 ins	2.00 100.00
If better seedlings can be we will grow them.	

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## We have for spring sale

5.000 White Pines (Pinus strobus) 3 to 6 ft., collected trees

2.000 Cornus florida 4 to 8 ft., collected trees 50 per cent budded

2.000 Abies fraseri 2 to 5 ft., nursery grown

2.000 Kalmia latifolia 2 to 3 ft., collected

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Pineola, N. C. Phone: REpublic 3-4542 should know not only how to do their work, but why it should be done in that way. With knowledge should come interest. Above all, the employee needs a sense of security and permanence if he is to become an effective worker.

Robert Hobbs was master of ceremonies at the annual evening banquet, which was followed by a musical program from one of the student organizations.

Thursday morning, Dr. Clarence Gotshalk, director, Morton Arboretum, Lisle, Illinois, discussed the services of an arboretum to the nursery industry and to the public. He listed and elaborated on seven things the arboretum can do for nurserymen, and seven the nurserymen can do for the arboretum. Briefly, the arboretum interests the public in better plants, informs the public of possible sources of these plants, aids in clearing up incorrect identification and nomenclature and serves as a source of propagating material.

Nurserymen can aid the arboretum by growing a limited supply of new material in demand, aid in identification of doubtful plants, furnish samples of good new plants, donate material that may be in surplus, but which would be of value to the arboretum for various test purposes, and refer maintenance or other problems of the buying public.

Dr. Gotshalk listed and showed slides of twenty-two plants which many visitors try to buy with little success in commercial nurseries.

#### Final Business

A final business meeting, followed by the Indiana A. A. N. chapter, luncheon, concluded the conference. A gain of fifteen active members was reported, as well as several additional associate members. Addition of a research committee to other standing committees was approved. Marvin Bareither, New Augusta Nursery, presented the sketch of a suggested state association emblem.

Dates of January 12 to 14 were approved for the 1956 winter meeting at Purdue.

Gorrel Shumaker reported that establishment of an arboretum at The Hills, near Lafayette, appeared a lost cause, with dismissal of the arboretum committee appointed by the organization holding an indefinite lease to the property under consideration. The association must now look for other possible locations.

Dr. Ellis reported that a growerretailer committee is being organized on a national and state basis to work on orderly marketing. He said nurserymen should become informed on

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10 rate each 100 rate each

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2000	Berckmans Golden Arborvitae, 2 to 3 ft	\$2.25	\$2.00
100	3 to 4 ft	3.75	3.50
1500	18 to 24 ins	1.75	1.50
750	15 to 18 ins	1.50	1.25
1500	Fruitlandi Arborvitae, 18 to 24 ins	1.75	1.50
400	Fruitlandi Arborvitae, 2 to 3 ft	2.25	2.00
500	Conspicua Arborvitae, 3 to 4 ft	2.25	2.00
200	Conspicua Arborvitae, 4 to 41/2 ft	3.00	2.50
150	Chinese Column Juniper, blue 10 to 12 ft.	8.50	8.00
150	8 to 10 ft	7.50	7.00
150	6 to 7 ft	5.75	5.25
500	5 to 6 ft	4.50	4.25
100	Chinese Pyramidal Juniper, 6 to 7 ft	6.50	6.25
500	30 to 36 ins	2.75	2.50
500	24 to 30 ins	2.25	2.00
200	Sylvester Juniper, 3 to 31/2 ft	2.50	2.25
200	Sylvester Juniper, 24 to 30 ins	2.25	2.00
100	French Spike Juniper, 6 to 7 ft	3.00	2.50
200	Irish Juniper, 24 to 30 ins	1.75	1.50
300	Ashford Juniper, 24 to 30 ins	2.00	1.75
200	Savin Juniper, 15 to 18 ins	2.00	1.75
1000	Greek Juniper, 3 to 5 ft., heavy	3.50	3.00
300	18 to 24 ins	2.00	1.75
300	15 to 18 ins	1.75	1.50
200	Andorra Juniper, 24 to 30 ins	2.00	1.75
300	Andorra Juniper, 18 to 24 ins	1.75	1.50

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These plants must be moved before April I due to an industrial development on property.

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	Each	Each
Each	Per 25	
Euonymus patens		
11/2 to 2 ft\$1.75	\$1.60	\$1.50
2 to 21/2 ft 2.00	1.90	1.75
llex cornuta compacta		
11/2 to 2 ft 2.75	2.50	2.25
2 to 21/2 ft 3.50	3.00	2.75
llex cornuta burfordi		
11/2 to 2 ft 2.75	2.50	2.25
2 to 21/2 ft 3.50	3.00	2.75
21/2 to 3 ft 4.25	3.75	3.25
llex crenata convexa		
15 to 18 ins 2.50	2.25	2.00
llex crenata globosa		
15 to 18 ins 2.50	2.25	2.00
18 to 24 ins 3.25	3.00	2.50
Ilex vomitoria		
11/2 to 2 ft 1.75	1.50	1.25
Jasminum floridum		
11/2 to 2 ft 1.75	1.60	
2 to 3 ft 2.00	1.90	1.75
Ligustrum japonicum		
5 to 6 ft 2.75	2.60	
6 to 7 ft 3.50	3.25	3.00
Ligustrum lucidum nobile		
3 to 31/2 ft 3.25	3.00	
31/2 to 4 ft 3.75	3.50	
Nandina domestica	-	
11/2 to 2 ft 1.60	1.50	1.25
2 to 21/2 ft 1.75	1.60	1.50
21/2 to 3 ft 1.85	1.75	1.60
Osmanthus fortunei		
3 to 31/2 ft 3.00		2.50
31/2 to 4 ft 3.75	3.50	3.25

## CONIFERS

Juniperus, Pfitzer 21/2 to 3 ft 3.00 3 to 4 ft 3.50		2.50
Juniperus, Irish 21/2 to 3 ft 2.50 3 to 31/2 ft 3.00	2.00	1.50
Retinospora squarrosa ve 2 to 2 <sup>1</sup> / <sub>2</sub> ft 2.50		2.00
Thuja (Globe Arborvitae) 24 to 27 ins 2.75 27 to 30 ins 3.25	2.50	2.25
Thuja (Hovey Arborvitae 2 to 21/2 ft 2.00 21/2 to 3 ft 2.50	1.75	1.50
Thuja occidentalis (Pyram Arborvidae)		
2 to 21/2 ft 2.25	2.00	

These prices are for prompt acceptance; may be withdrawn.

To get the 25 and 100 rates these quantities are to be dug at one time; where more than one size is listed, the sizes may be assorted. The prices are NET, per each. There are a lot of other things also; send want list.

LINDLEY NURSERIES, INC. GREENSBORO, N. C. Ithis project and spoke of the possibility of receiving help in telling their story. Dr. Ellis also called attention to the existence of federal research and marketing funds available for the 11-state north-central region. Committees exist for research on problems of fruits and vegetables. cereal crops, etc., but none exists for ornamental horticulture, although this is an important segment of the agriculture of the region. Dr. Ellis said such a committee representative of ornamental horticulture could be set up if the existence of a common problem could be shown and a properly drafted program presented. This would be one project for the newly authorized I. N. A. research commit-

#### INDIANA ARBORISTS

tee.

[Continued from page 12]

wilt mats and then on wounded healthy trees. Time of pruning probably has little connection with spread. From observations in an area where 160 to 200 new cases are occurring each year, only 5 per cent were from transmission through the air and 90 per cent were from tree to tree through the roots. The 5 per cent may even be too high.

The value and dangers of tree wraps were discussed. Several persons reported borer injury beneath the wraps, as well as buildup of scale insects and even damage from termites where tunnels were built beneath paper wraps to wounds on the tree trunk. Mr. Schuder recommended trunk treatment with DDT before application of wraps. DDT remains effective much longer where protected from the ultraviolet rays of sunlight. The old-time recommendation of a board to protect the south side of tree trunks from injury following transplanting still has much merit and is followed by several good nurserymen. PDB as a protective trunk treatment is not advisable except for peach borers near the ground line.

It was agreed that borers seldom, if ever, are on trees as they come from the nursery. Borers are usually secondary, attacking trees weakened from transplanting and sudden exposure to increased sunlight, drying winds and other less favorable conditions. Polyethylene tree trunk wraps are being tried for prevention of desiccation following transplanting.

#### Panel Discussions

In the evening was held a panel discussion of problems in brush control by spraying, of which Oliver C. Lee, Purdue University, was chair-

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#### 35¢ each

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Green and Silver Gareei Cypress grafts (grafted on arborvitae) also 35c each.

Pfitzer Juniper, out of 21/4-in. rose pots. Potted spring of 1954.

> Extra nice......15c each No order for less than 100.

#### Red Cedar

S., I-yr., 3 to 5 ins....\$15.00 per 1000 No order for less than 1000.

Juniperus Scopulorum (Silver Cedar)

I-yr., 2 to 4 ins.....\$25.00 per 1000 No order for less than 500.

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\_\_Mo.—months old X—transplanted S—seedling

Abelia Edward Goucher—X, F, 8 to 12 ins., 18c; 12 to 15 ins., 22c.

Abelia grandiflora—X, F, 8 to 12 ins., 10e; 12 to 15 ins., 14e; 15 to 18 ins., 18e; 2-yr., X, F, 18 to 24 ins., 30e.

Berberis Julianae—X. F. 4 to 6 ins., 15e; 6 to 9 ins., 22\(\frac{1}{2}\exists \); 0 to 12 ins., 30e.

Berberis sargentiana—X, F, 6 to 9 ins., 15e; 9 to 12 ins., 20e; 2-yr., 12 to 18 ins., 30e.
Buxus sempervirens arborescens—X, F, liners, not bushy, 9 to 15 ins., 15e.

Chaenomeles (Cydonin)—Hybrid, upight, non-fruiting, BG, not branched, 6 to 12 ins., 12c; 12 to 24 ins., 17c; colors—rich red and deep

Euonymus fortunel carrierel—(True), X, F, 4 to 6 ins., 15c.

Euonymus Japonicus-Large, RC, 8c.

Euonymus kiautschovicus (Patens)—Large-leaved, RC. 6c; X. F. 9 to 12 ins., 15c; X. F. 12 to 15 ins., 20c; 2-yr., X. F., heavy, 12 to 15 ins., 25c; 15 to 18 ins., S5c.

Euonymus kiautschovicus (Patens)—Small-leaved, good compact grower, erect, non-fruiting, 6 Mo., RC, 6e; X, F, branched. 9 to 12 lns., 15e.

Hex howardi—RC, 15c; southern type.
Hex opnea—Northern types, not southern hybrides, guaranteed female and guaranteed nightly branched, 6 to 16 ins. 25c; for canning in gallon cans; 18 to 30 ins. 50c, 11ex rotundifolia—Light, 8 Mo., BG, not branched, 7c, a wonderful value for growing on; 1-yr., BG, 4 to 6 ins., 12½c; 2-yr., BG, extra heavy, bushy, will just fit a gallon can, 8 to 14 ins., 30c.
Hex vomitoria femina—X, F, 6 to 9 ins., 20c; 3 to 12 ins., mostly branched, 10c; X, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.
NOTE — All Juniperus 2-yr., from small, greenhouse type, cuttings transplanted to Juniperus Andersa—X, F, 6 to 8 ins., 20c; 18 to 10 ins., 30c. Hex howardi-RC, 15c; southern type

field.
Juniperus Andorra—X, F, 6 to 9 ins., 20c.
Juniperus pfitzerinna—Green, X, F, 4 to 6
ins., 15c.
Mahonia bealei—1-yr., S., suitable for potting, 6c.
Prunus inurocerasus officinalis (English
Cherry Laurel)—RC, 10c; 7 Mo., BG, 5 to
10 ins., 175c.

Prunus laurocerasus schipkaensis (Hardy Cherry Laurel)—RC, 10c; 7 Mo., BG, 5 to 8 ins., 171/2c,

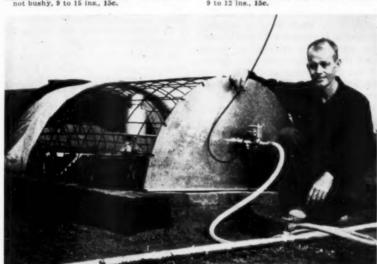
8 ins., 1792c.

Viburnum burkwoodi—Own root, X. F. 8 to 12 ins., 20c; 12 to 18 ins., 35c; 2-yr., X. F. 18 to 24 ins., 75c.

Viburnum rhytidophyllum—RC, 19e; 7 Mo., BG, 4 to 6 ins., 171/ge,

FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

HARVEY TEMPLETON, JR.



man and the other members were Joe Cravens, Cravens & Hawk Co., New Palestine, Ind.; Charles Lamb, Muncie Tree Surgery Co., Muncie, and Walter Dietsch, agronomist, Jefferson proving ground, Madison, Ind.

Another panel was held the following morning, concerning safety and utility line clearance, of which the moderator was Ken Daniels, safety engineer, Hartford Accident & Indemnity Insurance Co. With him on the panel were Charles Lamb; Clifford Smith, Superior Tree Expert Co., and Karl Kuemmerling. K. Kuemmerling, Inc., Canton, O. The conclusions of this panel will be reported in a subsequent issue, together with a summary of Karl Kuemmerling's comments on "Safety Practices of the Arborist," preceding the panel, as will the talk on "Practical Problems of the Arborist," by Paul Tilford, executive secretary of the National Arborist Association.

Concluding the program, Friday afternoon, was an informative talk by H. W. Gilbert, of Purdue University, on "Some Considerations in Selecting Good Shade Trees." He described the bases on which selections should be made and indicated the characteristics that are desirable in shade trees for transplanting.

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O. H. PERRY NURSERY CO. Box 545 McMINNVILLE, TENN.



## Reflections on the Progress and Problems of Nurserymen By E. Sam Hemming

#### NATURAL SEED DISSEMINATION

My father in a philosophical mood once imputed a reasoning power to plants, citing as an example the marvelous ability of plants to complete their reproductive cycle. Even if the ability is solely attributable to evolution, the study of plants' methods of seed dissemination is a fascinating subject.

Even the plants we propagate and grow so carefully often have strange and interesting methods of spreading their seeds. My father often studied the behavior of the deodara cedar in producing seeds. It, like so many other conifers, bears its seeds in cones, but, unlike the pines, the cones are collapsible. The cones are about the size of an average orange and as hard as a baseball, almost to the moment they shatter. When they do shatter, they collapse at the touch of a feather, the winged seeds fluttering to the ground like little helicopters.

Many of the conifers have winged seeds that float a long way in a light wind, and to give the seeds a good start some trees bear their cones in the very tops of the trees. On several occasions we have gathered seeds from three Nordmann firs about 100 feet high. The cones of these were always at the top. All of us have noticed a large old pine or spruce that has acted as a parent to seed an abandoned field or cutover woodland.

The conifers are not the only trees to bear winged seeds. The maples are particularly familiar to nurserymen and are all much alike in their production of seeds that whirl to the ground over a considerable area from the parent tree. The empress tree, or paulownia, is an exotic tree, but its winged seeds are so light that it has not only escaped from cultivation, but it is not uncommon to find a single tree deep in the

Nature did not rely on developing just one method of seed distribution. In fact, other plants like the oaks and nut trees bear heavy seeds that drop like a plummet from a tree. These seeds are attractive to animals, particularly rodents, and are usually scattered by them over a suitably large area. If one has ever had his nut crop attacked by squirrels he would think this a particularly poor method, but the tremendous spread of our oak forests testifies to its effective-

The rodent is not the only animal depended upon for the distribution of seeds. The birds spread a much greater variety of the plants we normally grow. The native cedar, a conifer that bears blue berries, is a common and picturesque feature of the

fence rows of our countryside, where they have been sown by birds. In fact, a trip through a bird's alimentary canal almost is a necessity for the germination. Many of our showy berries are eaten and carried by birds, and one of the mysteries to me has been the place of bitter or distasteful berries in evolution. Birds will often leave until late winter the berries of certain plants until food is scarce and then finally eat them. Holly and dogwood are such plants. Taste a dogwood berry sometime; it is not poisonous, but certainly disagreeable and pungent. Similarly, I have often wondered

about the place of poisonous berries in the scheme of things. Do birds eat nightshade berries, for instance? Certain of the berries in the nursery are often left for migrating birds to come along and strip the plants. Robins in flocks will often do this. That would be a very effective method of disseminating seeds.

Still other plants do not depend

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3 to 31/2 ft\$3.0	00
Euonymus Patens, 18 to 24 ins 2.7	75
Ilex Cornuta Burfordi, 18 to 24 ins 2.7	75

Ptitzer . 24 to										3.50
Blue He 30 to										4.25

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Keteleer 4 to 5																	5.00
Dundee .																	
3 ft																	
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upon any outside force or agent to scatter their seeds, but have the power of dehiscence. Parts within the seed pod have the power to build up tension, which, when suddenly released, serves as a spring to throw the seeds some distance. My father used to be particularly interested in the gas plant, or dictamnus, which has this ability and used to annoy him, because the seeds would often disappear over night. All of us as children have probably played with the seed pods of balsam, or lady'sslipper, which also has this ability. The ability to dehisce their seeds is fairly common to members of the legume family.

The seeds of other plants are hitchhikers, the common stickers and burs being examples. The mistletoe, in its highly specialized cycle, produces a berry coated with a viscous material that makes it easy for birds to carry to the crotch of some tree

where it may grow.

Many of our seeds are water borne and are often carried considerable distances down rivers and across lakes and rarely even across seas. One curious seed adapted to watery surroundings is the lotus, or nelumbium species. Its seed, about the size of a marble, is heavy and sinks in the mud to germinate if it ever does. for it has the hardest coat of almost any seed I know. It seems to be waterproof and must stay in the water a long time before it will germinate. We tried some and did not succeed until we put the seed coat to an emery wheel. E. S. H.

#### HOLLIES IN SOUTHEAST

[Continued from page 14]

nurseryman, Denmark, S. C. English holly is being successfully grown at Atlanta, Rome and Ida Cason Gardens in Georgia. At Norfolk and Roanoke, Va., similar successes have been experienced. Not too successful results have been observed in eastern South Carolina and in the southeastern states. Early fall and late spring frosts are one of the factors limiting success with English holly in the area, he stated.

For successful growing of English holly in the southeast, five considerations were offered: Prepare planting pits similar to those used for pecan; plant in an eastern or northern aspect; plant near a body of water when possible; give special cultivation to variegated varieties; cut out 40 per cent of the sunlight in propagating and growing beds.

A resume of the growth of the Holly society from 44 members in 1947 to 600 and of the activities of

## **PEACH TREES**

All commercial varieties

3/4-in. cal	Per 100 <b>\$0.70</b>
11/16-in. cal	.65 .55

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			ft																.80	.75
4	to	5	ft																.95	.85

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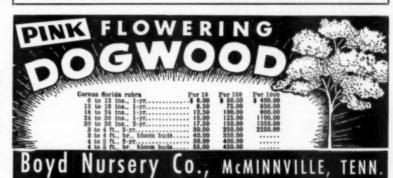
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invites your inquiries for Juniper grafts and other liners. Upon request, we will gladly mail you a list of propagators in Kentucky, after which you may contact your favorite grower. Address inquiries to:

NICK VERBURG, ANCHORAGE, KY.



#### **MULTIFLORA ROSES** UNDERSTOCK

Straight shanked seedlings grown especially for understock. Expertly graded to suit the most Per 1000 particular. 4 to 6-mm. cal.....\$27.50 2 to 4-mm. cal...... 17.50

Also available are the following grades for living fences, conservation plantings.

Ins. Per 1000 Cal. 8 to 15 \$12.50 2 to 3-mm. 3 to 5-mm. 12 to 18 19.50 3 to 8-mm. 12 to 24 22.50 5 to 12-mm. 18 to 36 32.50

Write for special quotations on quantities of 10,000 or more. The above prices are F.O.B.

Griggsville, Ill. nursery.
All tops cut back to 10 ins. at shipping unless otherwise requested.

NO PACKING CHARGE. 500 at the 1000 rate.

Our storage facilities are the best. ORDER NOW for delivery this winter or spring.



FARM LANDSCAPE CO. Box 230 URBANA, ILL.

## WE OFFER ... **Our General Line of** SMALL FRUIT PLANTS

Let us quote on your

requirements.

#### L. J. RAMBO'S WHOLESALE NURSERIES Bridgman, Michigan

## JUNIPERUS VIRGINIANA

(Red Cedar)

													- 1	Pe	r 1000
6 to	9	ins.,	S												\$12.50
9 to	12	ins.,	S												17.50
12 to	18	îns.,	S												22.50
In lots	s of	F 10.0	000.	5	%		di	sc	0	u	n	f:	ii	n	lots of
	In lots of 10,000, 5% discount; in lots of 50,000 or more, 10% discount. No ship-														
ments made on this stock after April 10.															
See our special offer on page 69.															

#### O. H. PERRY NURSERY CO.

Box 545 McMINNVILLE, TENN.

#### ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants Finished Stock Send for price list.

two standing committees was presented by the secretary. The investigations into the qualities of varieties of holly being conducted by the variety selection committee are a continuation of the work begun in 1941 at the New Jersey agricultural experiment station. The committee on arboretums is now cooperating with five established arboretums in the United States to test the hardiness of holly plants.

The meeting was concluded with a conducted tour of the gardens and the propagating areas. The methods used and the materials under cultivation were examined by visiting nurserymen, including Mr. and Mrs. Tom Dodd, Jr., Semmes, Ala.; Mr. and Mrs. Wayne Asplin, Westlake, O.; Hugh Dunlap, Nashville, Tenn., and Mr. and Mrs. William E. Bell, Cleveland, O.

#### OKLAHOMA CONVENTION

[Continued from page 18]

location of the garage and other construction is important to the fin-

ished design.

Mr. Roberts emphasized the importance of giving a customer the most correct and economical job that is possible for the amount he invests. But quality must never be sacrificed for economy, he said. Time spent in making drawings to illustrate what you have in mind is time well spent.

He said it is the responsibility of the landscape designer to plan with the residential architect for proper off-the-street parking, adequate drainage and other things the customer might not think of until it

is too late.

#### A. A. N. Activities

Jim Lauden, of the Consolidated Nursery Co., Tyler, Tex., director of region 5 of the American Association of Nurserymen, spoke briefly Wednesday afternoon on some of the work of the organization, including A. A. N.'s efforts to promote the "Plant America" program.

Mr. Lauden said one of the principal aims of the A. A. N. is to promote appreciation for home property. Some of the results of proper planting, he said, are the increase in the value of homes and the beautification and comfort of homes.

Jack Jones, of Sarver's Nursery, Dallas, Tex., followed Mr. Lauden on the program, giving some timely suggestions on how Oklahoma nurserymen could set up their "Plant Oklahoma" program.

#### Judd Germany, of Fort Worth, presented up-to-date information on the use of fertilizers in growing nurs-

## PFIT7FR IIINIPFR LINFRS

TT, field, sheared	
8 to 11-in. spread	40c
II to 14-in. spread	55e
14 to 16-in. spread	65c
6 to 8 ins., bands	141/2c
8 to 10 ins., bands	20c

## **BLUE HETZ JUNIPER LINERS**

(Juniperus chinensis pfitzeriana glauca hetzi)

Express Co. has lowered our shipping

All prices 300 or more total order. Less than 300, add 2c per plant. See our classified ad. Write for list.

Book your order for spring.

## McININCH GREENHOUSES

ST. JOSEPH, MO.

## POT-GROWN LINERS

To avoid disappointment contact us between now and September for your liner needs for 1955-1956 season.

We are sold out for this season.

## JOHNSON'S NURSERY BAXTER, TENN.



Azaleas, Camellias and Magnolias our specialties.

· Abelia Grandiflora Hybrid Rugosa Roses Nurserymen's Supplies • Liners—complete list. See Our Trade List. CHASE NURSERY CO. CHASE.



Wholesale Catalog SEMMES, ALA.



### FINISHED TAXUS

Liners and Bed Stock

Send for List.

EAGLE CREEK NURSERY NEW AUGUSTA, IND.

# SASANQUA CAMELLIAS

are fast gaining popularity. They are being planted everywhere in the southeast and as far north as Washington, D. C.

Don't let the boat leave you! Have a variety ready to sell. The demand will be greater each season. We have all sizes ready:

6 ft., specimen plants, B&B.\$4.00 to \$6.00 (These will be in bloom in about 3 weeks.)

EAST COAST FLOWER FARMS
PINK HILL, N. C.

### **CANNED PLANTS**

Build profits with Wight's container-grown evergreens. Wide assortment, including ilex, Magnelia, Camellias, Pyracantha. Ask for wholesale list.

Ask for wholesale list.

| The control of the contr

### **TEUCR!UM CHAMAEDRYS**

Top size Per 100 Per 1000

Medium grade 12.00 100.00

Well-rooted cuttings 5.00 45.00

BEARDSLEE NURSERY PERRY, O. ery crops at the Thursday morning session. Based on actual growing experience, Mr. Germany's remarks were well received, and he was kept busy for some time after the close of the session answering questions.

With the great variation in soils used by different nurserymen, it is often necessary to add some corrective for acidity and surpluses, he said. A lack of natural elements in the soil used for container-grown plants is best corrected by the addition of organic plant food, he said. He said that his firm preferred rotted sawdust or other comparable organic material mixed with the soil.

Mr. Germany stressed the importance of using great care in the selection of varieties of plants to be grown and the addition of organic plant food to secure top-quality plants with winter hardiness in both field and container-grown plants.

### Entertainment

Many more women were in attendance at the convention than at other recent meetings. They almost filled the Oriental room, where their Wednesday luncheon was held. Mrs. Cy Higdon, assisted by Mrs. Warren Welch, arranged a floral centerpiece and had small gifts at all places for the guests. A book review entertained the guests.

At the banquet, Wednesday evening, Bruce Rey was master of ceremonies. Special guests were introduced. Two piano numbers were given by Claudia Rey, daughter of Mr. and Mrs. Rey. Dancing to the music of Mickey Reynolds' orchestra until a late hour completed the evening's entertainment.

A motion picture in color of some of the rose-growing operations in California of the Mount Arbor Nurseries, Shenandoah, Ia., was shown at the Wenesday session.

### Awards

C. E. Garee, of the Noble Nursery, Noble, Okla.; Frank Sneed, of Sneed's Nursery, Oklahoma City; A. G. Hirschi, of Oklahoma City, and Philip Thomas, of Tulsa, all of whom had received the large bowl trophy in recognition of their long years of service to the industry, were presented with smaller trophies, which they may keep permanently. Warren Welch, of Capitol Gar-

Warren Welch, of Capitol Gardens, Oklahoma City, was named winner of the trophy as the outstanding nurseryman of the year. Merchandising methods and outstanding displays at Capitol Gardens have attracted considerable attention at the store on North May avenue for some time.

### SURPLUS STOCK

Abelia grandiflora	Per 100	Per 1000
(Glossy Abelia), field-q	rown	
4 to 6 ins., C	.\$ 3.50	\$ 25.00
6 to 12 ins., C		
12 to 18 ins., 2-yr., C		
18 to 24 ins., 2-yr., C		
2 to 3 ft., 2-yr., C	. 20.00	150.00
Hydrangea paniculata ( (Peegee Hydrangea)		
4 to 6 ins., C	. 3.00	20.00
6 to 12 ins., C	. 4.50	35.00
101-101-0	7 66	40.00

Cornus florida
(White-flowering Dogwood)
12 to 18 ins., 2-yr., 5... 4.00
18 to 24 ins., 2-yr., 5... 5.00
2 to 3 ft., 2-yr., 5... 6.00
2 to 3 ft., well-br... 35.00
3 to 4 ft., well-br... 60.00

### **NATIVE EVERGREENS**

Collected stock
Rhododendron maximum, Kalmia latifolia, Ilex opaca, Tsuga canadensis
Per 100 Per 1000
3 to 6 ins., S. \$2.50 \$20.00
6 to 9 ins., S. 3.50 30.00
9 to 12 ins., S. 5.50 50.00

CUMBERLAND PLATEAU NURSERY Rt. 1 CROSSVILLE, TENN.

### **SMALL FRUIT PLANTS**

Grapes

Currants

Berry Plants

Write for Wholesale Price List

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### STRAWBERRY PLANTS

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Albritton	,									8	×	*		8	*	*		*	.\$	11.00
Armore .	. ,								*						×	×	×	×		10.00
Arrowhea	Id	1								×										10.00
Blakemor																				8.50
Dunlap .					*		÷	*		*										7.50
Empire .													×							12.00
Fairland	,																			11.00
Premier .						×				·			м					×		12.00
Robinson																				8.00
Tennessee		E	Ba	ıa	ıu	t	v												01	11.00

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Twenty-two pages packed full of items that can mean real profit for you: Strawberry plants, Perennials Store packages, Pyramid Gardens. Don't delay - write today!

judson WHOLESALE nurseries BRISTOL, INDIANA

### CHINESE CHESTNUT TREES

Seedlings only of the Peter Lui strain. A surplus of small sizes due to drought conditions. Your inquiries invited.

LEESBURG, GA. LEELAND FARMS

### FRENCH PUSSY WILLOW

Beautiful February-forcing strain. Cakin sheath is a rich mahogany-red with attractive large silvery-pink cakins when mature. Boot and top pruned liners, \$12.00 per 100; \$100,00 per 1000. IS to 18 ins, \$25.00 per 100; \$200.00 per 1000. BEARDSLEE NURSERY PERRY, O.



### **AZALEAS**

Broad-leaved Evergreens and a general line of quality ornamentals.

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### WE SPECIALIZE IN FINE Azaleas and Camellias

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Pronouncing Dictionary of Plant Names and Botanical Terms 64 pages, 3000 names, 25e per copy AMERICAN NURSERYMAN

### TENNESSEE'S 50TH

[Continued from page 9]

In addition, he said, there are seven television stations with a 30minute program at night costing \$1,815 or \$94,380 a year for 52 programs. Thus you can see, he stated, \$100,000 to \$150,000 per year could be spent easily in this type of campaign. These figures, he said, will serve to illustrate why such a program would be too costly for the nurserymen's association. However, he added, a few nurserymen in the same town could get together in a cooperative advertising venture.

In Nashville, he said, there are 10 retail and two wholesale nurseries. A specific campaign advertising a few items, showing the price and telling the readers where they can buy the stock, would prove advantageous, he believed. The only general rule for advertising is that the copy be specific and interesting, truthful, offer good values and appear at the ap-

propriate time.

Mr. Coggins said he visited several nurseries in Nashville and made the following observations: The location of several was poor, for impulse buying was being missed. Prices were not marked on the stock. People, he stated, are afraid to purchase something when the price is not clearly evident. Plain people would appreciate plain English. He suggested placing the common name of a plant below the Latin name. Retail nurseries should be made interesting so that people will want to visit them, he observed. Place information about trees, shrubs and plants in the salesvard and shop. Mr. Coggins concluded by saying that retail nurserymen need to extend their selling season even if they offer related items. Advertising can create new markets which nurserymen never knew existed.

### Landscape Award

At the luncheon Monday noon, Vernon Marshall, Arlington, Neb., vice-president of the American Association of Nurserymen, presented a national industrial landscaping award to the Super Service Motor Freight Co., Nashville. He informed the representative of the company that his was one of 24 industrial concerns selected out of 54 entries to receive the A. A. N. award this year. For his design and execution of the winning planting, Richard H. Jones, Jones Ornamental Nursery, Nashville, received a similar award from Dan Gardiner, Boone-Gardiner Nursery Co., Louisville, Ky., president of the National Landscape Nurserymen's Association.

### CHINESE CHESTNUTS

Hemming Strain Blight-Resistant Trees

Per 10 Per 100 Per 1000 12 to 18 ins....\$2.50 \$22.50 \$200 18 to 24 ins..... 3.50 300 2 to 3 ft..... 6.00 55.00 500 3 to 4 ft..... 7.50 70.00 650

Write for Trade List

EASTERN SHORE NURSERIES, INC.

Box 743 EASTON, MD.

### LINING-OUT STOCK

Black Walnut, 18 to 24 ins. Black Walnut, 18 to 24 ins. S. ... 18 libert, American, 18 to 24 ins. S. Chinese Chestnut, 12 to 18 ins. S. Chinese Chestnut, 6 to 12 ins. S. Cedrus deodaru, 24 in. pots. ... Yew, Hicks', 6 to 8 ins., T. ... Yew, Spreading, 6 to 8 ins., T. ... Azalea, Corsage, 4 to 6 ins., T. Azalea, Corsage, 6 to 8 ins., T. ... Boxwood, American, 2-yr. 4 to 6 ins.  $\begin{array}{c} 6.00 \\ 20.00 \\ 20.00 \\ 15.00 \\ 20.00 \\ 30.00 \\ 30.00 \\ 20.00 \\ 30.00 \end{array}$ Write for Complete Wholesale Price List

WAYNESBORO NURSERIES WAYNESBORO, VIRGINIA



### LYTHRUM

Heavy, No. 1 field-grown plants.
Per 100 Per
pmore Purple ......\$12.50 \$1 KINGWOOD NURSERIES MENTOR, O.

### Juniperus Pfitzeriana

Per 100 Per 1000 Strong, rooted tip cuttings \$ 6.00 \$ 50.00 Heavy, 2½-in. pot..... 11.00 100.00

J. B. BEALLE Box 924 GREENWOOD, MISS.

### PROPAGATION OF PLANTS

By Kains and McQuesten. By Kains and McQuesten.
Seed testing, layerage, division, separation, rooting cuttings, grafting, budding, stock and scion handling, nursery management and pest control. 637 p. (1942). Price, \$4.50, postpaid.

AMERICAN NURSERYMAN
343 S. Dearborn St. Chleago 4, Ill.

Dr. B. S. Pickett, head of the department of horticulture and forestry at the University of Tennessee, Monday afternoon reported that his department has been hard hit in loss of personnel the past year, and so little research work was done in ornamentals, although some was accomplished with fruit trees. This loss of personnel, he said, was discussed at the meeting with the farm bureau and so he hopes it can be corrected. Dr. Pickett related that the Tennessee Florists' Association set up a research committee the past year and in three months inaugurated five different projects in the university. Similar projects, he added, can be set up by the nurserymen if they express the desire.

### Plant Pest Act

The state entomologist, H. L. Bruer, reported that the new plant pest act has been passed by both houses of the legislature and as soon as it is signed by the governor it will become law. The state regulation of separately labeling collected nursery stock has eliminated many complaints which his office receives. This regulation is similar to one in Michigan, he stated, although a Michigan tag has to be secured from the department of agriculture if an order being shipped to Michigan is to be partially filled with collected nursery stock.

The highlight of the convention came on Monday afternoon, when the association scheduled four roundtable discussion groups running at the same time. As the program lasted two hours, the nurserymen were able to visit each table and ask questions. Leading the discussion at the four tables arranged in each corner of the Commodore room were Robert Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky., whose subject was garden store selling; C. E. Kern, Wyoming Nurseries, Wyoming, O., who instructed the nurserymen on how and what to propagate; Bennett E. Brown, Knoxville Fertilizer Co., Knoxville, who talked on fertilizers and how to use them, and J. C. Hundley, executive manager of the Tennessee Rural Electric Cooperative Association, Nashville, who gave a talk on irrigation.

### Garden Store Selling

Mr. Hillenmeyer stated that there are not any set rules for operating a garden shop, for they depend on the clientele and other circumstances. But, he added, adequate parking facilities are a necessity. In the lay-



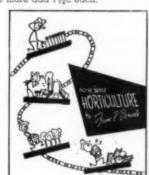
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A practical, understandable course in the rudiments of landscaping the small property.

Has the stamp of approval of over 1000 nurserymen and professional landscape men, who use it as a customer and sales help and for training their sales staff.

1 to 9 **60c** each; 10 to 24 **50c** each; 25 to 99 **45c** each; 100 or more only **40c** each. F.O.B. Long Lake. For prepaid postage (Book rate) in lots of 10 or more add  $1\frac{1}{2}$ c each.



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A complete, up-to-the-minute short course in horticulture and gardening. 1 to 9 \$1.00 each; 10 to 49 85c each; 50 or more 75c each. F.O.B. Long Lake. For prepaid postage (Book rate) in lots of 10 or more add 2c each.

### **LISTEN, PLEASE!**



### WHILE WE DRIVE HOME THESE 5 POINTS

Spring's coming! Things will be popping through the ground.



Don't be caught asleep at the switch.

These two books will really work for you.





They'll bring home the \$\$\$\$\$\$\$ in good markup, training sales staff, and in helping your customers.

SATISFACTION GUARANTEED, or your money refunded.



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IN 43 STATES AND CANADA
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BOOKS PROFITABLY.

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		T	otal en	closed	\$

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Grown, graded and packed to meet the requirements of U. S. A. import regulations.

Ask for beautifully illustrated trade list containing extensive assortments of Azaleas, Rhododendrons, Shrubs, Conifers, Peonies, Phloxes, Bleeding Hearts and other stock.

Our new race of **extremely hardy Rhododen-drons** obtained highest awards at the Ghent Floralien, 1950, and Heemstede Flora, 1953.

### FELIX & DYKHUIS-Boskoop, Holland

Growers and exporters of nursery stock for over 60 years.

# The Homestead Nurseries HGBenckhuusen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties.

Trade catalog on request.

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for the Nurseryman and Forester. Write for catalog.

F. W. SCHUMACHER, HORTICULTURIST SANDWICH, MASS.

### SEEDLESS Watermelon

BE FIRST TO OFFER PLANTS of amazing seedless melon pictured in Life magazine. Big new market for nurserygrown plants from home gardeners, roadside market growers and farmers. Originator's colchicine developed hybrid—delicious, sweet, bears 5 to 7 seedless table-size melons per plant.

Big nursery profit because seeds must be started in flats, benches or coldframes but transplant easily and bear fruit in 60 to 70 days. Amazing yield, premium fruit and novelty appeal make sales easy at 50c to \$1 per plant.

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1,000	seeds						*				\$70.00
500	seeds		*								40.00
100	seeds					*					10.00



#### INSTRUCTION HANDBOOK

for starting, transplanting, growing FREE with all orders or on request. Pollinator seeds (bear ordinary fruit) furnished free with all seed orders.

### AMERICAN SEEDLESS WATERMELON SEED CORP.

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### TREE SEEDS

1/4 Lb.	Lb.
Balsam Fir	\$ 5.00
Concolor Fir (80% cut) 1.60	5.25
Norway Spruce 1.10	3.25
White Spruce, imported 1.30	4.00
Colo, Blue Spruce,	
forest run 2,35	8.00
Colo, Blue Spruce,	
select blue 2.65	9.00
Austrian Pine	
(certified Austrian Alps) 1.25	3.75
Red Pine (resinosa) 4.00	12.50
White Pine 1.50	5.00
Scotch Pine, Riga 3.50	11.00
Scotch Pine, Denmark 1.50	5.00
Scotch Pine, Race Noble	
d'Auvergne (recommended	
to hold green color) 1,40	4.75
American Arborvitae 1.50	5.00
Japanese Yew	2.50

We pay postage on cash orders of \$10.00 or more, east of the Rocky Mts. No packing charge, Half pounds figured at pound rate. Delivery before spring planting time.

K. J. BRADEN

O. Box 187 MILTON, N. H.

### SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

### NEW PUSSY WILLOW SILVER CLAW

(Mutabilis Selection)

Excellent low-growing, extremely early-forcing variety, Catkins are long and slightly curved around stem when fully developed. Ideal florists' variety.

\$1.00 each.

BEARDSLEE NURSERY PERRY,

out of the Hillenmeyer garden shop, he said, a circular driveway surrounds the shop and lath area. Employing diagonal parking, 80 to 90 cars can be accommodated. The garden shop itself is located in the center of the lath area, so that people can be drawn into the building.

Neatness is most important, he emphasized. In slack periods or on rainy days the grounds can be tidied up.

### Propagation

The old saying that what was good enough for my grandfather to grow is good enough for me no longer prevails in the nursery business, said Mr. Kern at the propagation round table. He passed out a list of plants which could be grown successfully in Tennessee, describing their growth, foliage, flowers and good and bad points. All of the materials discussed by Mr. Kern were broad-leaved evergreens.

With the change in the type of architecture, he pointed out, different types of plants have to be grown. No longer are 3-story homes built, but rather the split-level homes have come into prominence. Talking on trees Mr. Kern recommended Trident maple, Amur maple and paperbark maple as varieties of maples to grow in Tennessee.

#### Fertilization

Mr. Brown, talking on fertilization, offered the following comments: Let a soil test be only a minor part of determining what plants need. Use good judgment and close observation, employing a complete, well-balanced fertilizer adapted to different plants. When irrigation is used, the amount of fertilization can be increased. Mr. Brown recommended fertilizing plants during the growing season and using more light applications instead of a heavy dose at one time.

Good practices should be used in growing stock, he emphasized, and fertilization should be one of these. A final observation made by Mr. Brown was that minor elements are just as important in plant growth as are nitrogen, phosphorus and potash.

### Irrigation

Assisting Mr. Hundley in his discussion of irrigation were Tom C. Shirley, Dixie Irrigation Co., Louisville, Ky., and Dade A. Duke, Twin Lake Irrigation Co., Dickerson. In the course of the session the following points were brought out: One inch of water will irrigate sandy soil six inches deep, irrigating clay soil

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deeper. In east Tennessee water is hard to find and nurserymen have to depend on ponds, creeks and rivers. In the western part of the state water can be obtained from wells. At the experiment station at Dandridge, 46 bushels of corn were obtained without irrigation, while 86 were obtained when an average amount of irrigation was used.

A rule for water is to use one and one-half times as much water per acre as the evaporation rate. To determine this, a pan of water can be placed in the field and when one inch of water evaporates, the land can be irrigated, using one and one-half inches of water. At Dandridge, at the experiment station, the rate for applying water was .22 inches per hour with the average watering being one to two inches for each application.

### A. A. N. Chapter Meeting

In a brief meeting of the Tennessee chapter of the American Association of Nurserymen, Archie Cultra was elected president, while H. R. Potter, H. R. Potter Nursery, Joelton, was re-elected secretarytreasurer. As the delegates of the chapter have been reduced from three to two, Hoskins Shadow, Shadow Nursery Co., Winchester, was elected delegate to the A. A. N. convention for one year, while Jesse Tritschler, Tritschler's Greenhouses, Nashville, was chosen alternate. Elected a delegate for two years was Hubert Nicholson, while Charles Morse, Jr., Morse Bros., Chattanooga, was chosen as alternate.

### Present Tree

Tuesday noon approximately 50 nurserymen visited the capitol grounds to witness the tree-planting ceremony. A 20-foot magnolia tree, being 25 years old, was donated by Boyd Nursery Co., McMinnville, to present to Gov. Frank Clement. After having to give up the site first selected on the capitol grounds because of the rocky formation encountered in digging the hole, the nurserymen approved a second location at which a hole was dug to house the 7-foot ball.

A dinner and dance was scheduled Monday night, with entertainment provided by the Melodiers, an all-girl singing trio, and stars from "The Grand Ole Opry," including the duke of Paducah. Orchid corsages were provided for all the ladies. After the banquet, Henry Homer Chase, Chase, Ala., the Grand Bow Wow, officiated at the Yellow Dog initiation.





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GRO-SOD 10-6-4 LAWN FOOD

Dept. AN2-5

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AMERICAN and HOLLAND GROWN BULBS

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### Northern California Institute at Davis

By Walter B. Balch

Nearly 200 nurserymen from the northern California area attended the third annual Northern California Nurserymen's Institute on the Davis campus of the University of California, January 26. Nearly all of the speakers were members of the staff of the university, some coming from the local campus, some from Berkeley and some from Los Angeles. The event, as in the past, was co-sponsored by the California Association of Nurserymen, represented officially by Don Perry, vice-president. Marston Kimball, extension ornamental horticulturist, University of California, was in charge of the affair.

The morning program was limited to formal talks. The afternoon sessions were question and answer periods, the group dividing into three sections and the speakers of the morning circulating at stated periods from section to section.

### U. C. Soil Mix

Most of the subject matter concerned soil mixtures and fertilizers. "The U. C. Soil Mix," discussed by Dr. Philip A. Chandler, department of plant pathology; "Managing Soil Nutrition," by Dr. O. Ray Lunt, department of soils and irrigation, both from the Los Angeles campus, and "Source of Materials," by Marston H. Kimball, extension division horticulturist, were of great interest to the growers who were present.

The U. C. soil mix was developed by Dr. Chandler. He had had his early training in England, where such mixes apparently are quite common, and upon taking up his duties in California he concluded that a mix satisfactory for California might be beneficial to the growers. After a few years of experimentation he presented his original mix about three years ago. It since has been modified somewhat, and it was regarding the modifications that he spoke at this time.

The mix is primarily sand and peat or some other organic matter such as rice hulls, grape pumice and even shavings of some kinds of woods. Dr. Chandler seems to feel that, provided one has a sand of right grade or texture, the greater the amount of sand in the mixture, the better the results to be had. He feels that the primary mixture has several advantages, including the start with a material whose chemical constituents are known and will not

vary from year to year, ease of complete sterilization either with steam or chemicals and ease of control of added nutrients during the growing season. He regards the soil largely as a place where the roots can take hold, to support the plant, as a source of water and food which can best be added by grower as needed.

Although he indicated that all sand was the best medium, Dr. Chandler recognizes the practical inability on the part of the growers to get just what is needed and he compromises with the organics already mentioned. In general, he suggested that a bedding plant grower try to use as much as 75 per cent sand and he added that the greenhouse cut flower grower would do well to try to use that large a percentage of sand. The pot plant grower should, he feels, use not less than 50 per cent sand though he may go to only 25 per cent sand if conditions demand it. The only use for 100 per cent peat seems to be in the growing of such plants as azaleas or perhaps rhododendrons.

The sand must, of course, be saltfree and should be about 75 per cent fine sand with less than 15 per cent silt. In the primary mix, one adds to each cubic yard of soil one pound of treble superphosphate, one pound of potassium nitrate and six pounds of dolomite, from which one would get calcium and magnesium. Iron can be added later if it is needed. Under certain conditions potassium

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sulphate may be substituted for the potassium nitrate and to this added about three pounds of hoof and horn if the soil is to be used a few days after sterilization. If it is to be allowed to wait a period of a week or more before using, the hoof and horn is added after the soil is placed into the containers and as the plants are set into it.

It was brought out during the day's discussions that in soil mixes which are allowed to stand for weeks before being used, the organics will break down, and it was further brought out that, contrary to popular belief, organic matter loses most of its nitrogen in about three weeks. As a result of this rapid loss of the nitrogen from the organics, the plants will get little if any of that material after about a month from this source.

### **Fertilizers**

Using such a rather sterile medium for plant growing, it is obvious that there must be supplementary feedings of chemicals in the form of fertilizers, and it was this subject which was discussed by Dr. Lunt. Dr. Lunt

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indicated that his suggestions would provide an optimum of growth, maintain plant nutrients in the proper ratio to each other and would maintain these ideal feeding conditions continuously. He recommended that one regularly make chemical analyses of the soil so that one will always be aware of the salt concentrations and its pH value. This can be done at the nursery or by a commercial laboratory. He added that in most cases where he had been called in regarding soil nutrition problems he had found the nurseryman had been using too much fertilizer or had not leached the soil regularly, and thus excess salts were causing most of the damage. Most plants, he said, grew best in a pH of 5.5 to 7 and were damaged if there was over .3 per cent of salts. (It should be remembered that the speakers consider all chemicals found in the soils, or added in fertilizers as "salts" and that sodium chloride, which is the common table salt, is only one of the salts found in soils

Fertilizing should be regular, and Dr. Lunt indicated that he would recommend frequent light feedings to less frequent heavy feedings. To use the fertilizer formula which he recommended once in two or three

and which when present in excess

amounts will damage plants).

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weeks seemed to be his idea of the way to get the best results. The formula for a complete feeding as given by the speaker was: To each 100 gallons of water add one-half pound of potassium nitrate, one-fifth pound of ammo-phos (11-48), onehalf pound calcium nitrate, one-third to one-half pound magnesium sulphate, one-quarter pound urea (46 per cent) and chelated iron, if needed, two thirds of an ounce.

Since these are all compatible, he suggested that for the first feedings to the U. C. mix one use the entire



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formula. Then, as time went on, if one's chemical studies showed there was no need for one or more of these materials he could leave them out of later feedings until they were required again. While Dr. Lunt seemed to favor the liquid method of application, he said that if one did not have a satisfactory dispensor, the materials could be added in dry form. He seemed to indicate that he felt one is more likely to have fertilizer burn from dry applications and, of course, it is generally recognized that liquid feeding is less costly, for one is spared the labor costs of application when the foods are applied while irrigating.

### Sources of Materials

Professor Kimball told of his survevs of the state for sources of the sand which is desirable for the U.C. mix. He has learned that, rather than only a few isolated sources, there are many and in general they are rather well scattered throughout the state. He reported on a few of the sources, and he advised the group that as soon as the survey is completed, reports will be given the farm advisors in each county and that the growers may have the information from that source.

### Water Supply

Prof. Warren Schoonover, extension soils specialist, U. C., Berkeley, gave a rapid fire report on "Your Business and Water Supply." He said that water as it comes from the ground seldom contains too much salt. Excess salts, it seems, build up in the soils because of draining out of the water and leaving behind the salts, of water losses due to evaporation and water uses by the plants. Excess salts build up faster in sandy soils than in silts or clays. There are areas in the state where one will find water containing excess amounts of boron. To reduce the possibility of excess salts use more water. This is to be done even if the original water contains large amounts of salts, for the generous use of water pushes the excess salts out of the soil by mechanical means. He said, too, that the pH readings of the water are of no value, for there is no buffering in water and the results are unimportant until the water is in the soil. He said that drainage is important in all watering and there is no good drainage in either a raised bench or a pot even if gravel is used in the bottom of the pot or bench.

#### Air Pollution

There was a short talk on "What Is Air Pollution?" In his remarks



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Dr. Albert Paulus, extension plant pathologist, explained what is now known about air pollution and what gases were responsible for it. His series of colored slides showed the damage done to several cut flower and vegetable crops by air pollutants, and from these slides one was able to conclude that there is a varietal difference in susceptibility to smog.

Channing Jones, California Spray Chemical Company, Richmond, gave a valuable talk entitled, "Today's Merchandising Problems." It is his feeling that in California there is no let-up to the prospects of success in business. He said that it is expected that there will be about 100,000 new homes built in the state each year for the next five years and that the nurseryman will feel the effect of building two or three years after the homes are occupied. Until that time he feels that most of the funds in the family will be used for other purposes than gardening and planting.

To do better as nurserymen he suggested his hearers pay more attention to the dry goods they handle than they now do. He feels an increase in volume rather than an increase in prices is the way to more profit, and the way to get more business is to get more people into the store or nursery and then treat them right. To get them in, he asserted one must advertise, and he seemed to have no personal preference as to the medium. The store should be located where there is plenty of traffic, and when the buyers come in, they should see a clean, properly lighted store, with well arranged island displays and with well trained personnel. He recommended staff meetings in which instruction was given in the products of the store either by a member of the organization or manufacturers' representatives. He suggested bonuses to those of the staff who moved slow moving merchandise. Inventory control was highly recommended, and the fast disposal of items which were staying too long was advised.

#### Agricultural Education

Agricultural education in the United States was discussed by Fred N. Briggs, dean of agriculture at Davis. He traced it from the establishment of two or three agricultural colleges about 100 years ago, through the establishment of the land grant colleges in the Lincoln administration and up to date. He noted that while other types of learning were patterned after the European schools and colleges, the agriculturists had to start from scratch, for nowhere else in the world had that science



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been so taught. He called attention to the fact that agricultural teaching had reversed the normal process in that it started in the higher institutions of learning and worked down till now it is taught in junior colleges, state colleges and high schools in California. He summarized by adding that the United States provides more of such education than does any other country in the world.

Except for the campus tours in the afternoon no new subjects were taken up. On the tour the several groups seemed most interested in the mist propagation work being done. By this method of providing continuous moisture in the air over cuttings which are being rooted, it has been possible to shorten the rooting period and in some cases to root kinds of plants usually thought impossible of propagation by this method. Most of the work is being done in an effort to secure root stocks of fruit trees which are resistant to nematodes or other pests, but the principles involved are being used for other purposes by nurserymen over the state.

Two important factors in this method of propagation mentioned were that 24 hours per day of misting is less satisfactory than daylight only misting; that best results are obtained when hormones are used before putting the cuttings in the sand and that solutions rather than dry hormones are to be preferred under the conditions prevailing at Davis.

F. L. Dinwiddie, Valley Garden Nursery, Woodland, had been coordinator of the meetings, and he was warmly congratulated by the nurserymen on the selection of the subjects on the program, the speakers who had presented the material and the excellent arrangements that had made the institute procede so smoothly all day long. W. B. B.

### LOS ANGELES GROUP MEETS

Discussion of the various phases of the handling and merchandising of bare-root stock attracted an overflow crowd of nurserymen to the meeting of the Los Angeles chapter of the California Association of Nurserymen, at Arcadia, January 26.

Prepared questions concerning problems of the retailer during the bare-root season were directed by the moderator, Charles S. Crum, general manager of Rosedale's Nurseries, Monrovia, to a panel of four nurserymen drawn from both the wholesale and retail fields.

Representing the wholesale fruit and shade tree grower was Virgil MAN

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ntion E. Cripe, general manager of Del hing Rancho Fortuna, McFarland; wholess in sale rose growing, Henry A. Conktitulin, West Covina, and retailer, Carl lown H. Zangger, until recently manager eges, of Tuttle Bros. Nurseries, Altadena. s in Wilbur Korsmeier, proprietor of the add-Town & Country Nursery, Whittier, rides spoke for the small retail group. does

Problems of the field harvesting, handling from the field to the retailer, presale pruning, improvements in varieties, sales trends and packaging of the bare-root material were thoroughly explored. Pruning demonstrations by Mr. Cripe and exhibits of bare-root rose packaging methods provided the 133 members attending with visual information.

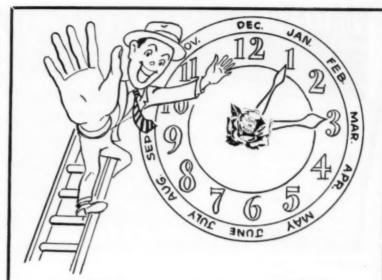
A highlight of the meeting was the presentation by President O. L. Weeks, Weeks Wholesale Rose Grower, Ontario, of the chapter's traditional certificate of merit to Ed. Mc-Neil, Tuttle Bros. Nurseries, immediate past president, in recognition of his service during 1953-54.

An interesting plant forum was presented by Ralph Klages, Coolidge Rare Plant Gardens, Pasadena, and Ernie Bordier, Bordier's Nursery, Covina. They displayed and discussed foliage samples of Dodonaea viscosa, a colorful tropical shrub; Ficus benjamina, a pendulous tree shrub; Chamaedorea elegans, a dwarf ornamental palm for the shade, and the spreading evergreen, Aralia chinensis. According to Mr. Bordier and Mr. Klages, all can be successfully grown in southern California

Questions submitted to the panel included the sales trend in roses, success of dwarf bare-root fruit trees, improvements in bare-root understock, effect of refrigeration on fruit and shade trees, best procedure in the use of fertilizers while planting bare-root roses and success of planting three trees in one hole.

Mr. Cripe demonstrated the proper pruning method with a bare-root peach tree, pointing out the normal reluctance of the average nurseryman to prune heavily enough to compensate for the loss of roots in the digging process.

Highlight of the discussion was the exhibits of the packaged roses. Mr. Conklin displayed the package he introduced three years ago, which he said proved unsatisfactory when exposed to weather. His current package, a treated cardboard, covering the roots only and leaving the canes exposed, will maintain the plant in good condition for three months, he stated. The roots are packed in a combination of peat



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### ROSES — Field Grown

Patented and Nonpatented.
Finest in roses since 1935.
Write for new list and prices. Contracts and advance orders solicited.

PACIFIC NORTHWEST ROSE NURSERY

### **ROSEMARY WILLOW**

(Salix Resmarinifelia)

Very attractive fine-textured specimen shrub.
Long narrow linear leaves, bluish-green above, white undermeath, Stems rich mabogany. Compact upright growth.
Available in 1-yr. stock only.....\$1.00 each.
BEARDSLEE NURSERY PERRY, O.



Finest Quality

CAMELLIAS — ROSES

RETICULATAS — HOLLY
(Northern California Grown Roses)

DESCANSO DISTRIBUTORS, INC.

Wholesale Growers

Pipeline & Walnut Sts., CHINO, CALIF.

### **EVERGREEN LINERS**

Rhododendrons Camellias Azaleas Andromeda Conifer Send for List

J. B. WHALLEY
Rt. 2. Bex 212 TROUTDALE, ORE.

moss and old shavings, and the rose can be planted, box and all. Further experimentation is necessary, he said, to reduce the weight for shipping purposes, since the single packaged rose weighs about three pounds. He adds an additional 15 cents to the wholesale price for the packaged rose.

Mr. Crum displayed the packaged rose that is marketed by Rosedaie's Nurseries which is similar to the one in use this year by Armstrong Nurseries, Ontario. This type employs the polyethylene bag, covering the entire plant with no packing medium around the roots in addition to an ornamental box enclosing the roots. Mr. Crum and Jack Story, Armstrong's Nurseries, stated that a plant packed in this manner remains in good condition almost indefinitely. Both said that their firms would continue this forward step. The value of the sales appeal of the package to the customer is extremely noticeable, Mr. Story indicated.

Ed. McNeil

### ADVERTISING MAIN TOPIC OF OREGON MEETING

Advertising was the major topic on the opening day of the midwinter meeting of the Oregon Association of Nurserymen, at Portland, January 20 and 21. The first address was on an unusually "hot" topic among nurserymen in that section of the country at the present time, "Truth in Advertising." The speaker was Jean T. Callahan, advertising manager of the Oregonian's Northwest rotogravure magazine.

### Truth in Advertising

"Bad advertising results in bad publicity, which in turn is bad for the cash register," Mr. Callahan said. He urged members of the nursery profession to assist newspapers, magazine, radio and television mediums to uncover "gyp" claims.

He pointed out that reputable newspapers throughout the country have rejected advertising copy from firms when evidence indicated they were out of line in making fabulous claims. He indicated that all newspapers have a vital interest in policing such accounts because they jeopardize readers' confidence in the paper, which in turn reflects on results for known reputable advertisers.

As a possible solution, Mr. Callahan suggested the association appoint a public relations committee to work with newspapers in this field. He further encouraged the association to appoint a member to join the AN

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Oregon Advertising Club and work with the latter group in solving the problem.

He invited nurserymen to bring in evidence of false advertising claims on the part of advertisers in an effort to clear up the situation. Following Mr. Callahan's talk, James Doty, president of the Oregon association, urged members to consider the advisability of following his recommendations.

### Merchandising

Two topics were covered on the second day, when the nurserymen were told how to become better merchandisers and increase their profits and how to comply with the provisions of the revised social security law.

On the first subject, they heard from two speakers, Alan James, president of the Oregon Florists' Club, and Fred C. Trullinger, Portland

Mr. James outlined the successful co-operative advertising program now being conducted by the florists, pointing out that such group promotions do not take the place of individual advertisements. He praised the nurserymen for their enthusiastic plans for participating in the spring flower show at the Gresham fairgrounds.

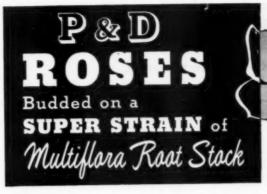
Mr. Trullinger pointed out that home gardeners expend in excess of \$1,500,000,000 each year on their hobby, exclusive of commercial operations. He indicated that while the spending was going on, the nurserymen were failing to get their share.

As a means of increasing their sales, they were encouraged by Mr. Trullinger to have a retail store outlet set up on a quick-service basis, maintain well-lighted, clean and seasonally appropriate displays of their merchandise, take advantage of national advertising campaigns relative to products they are selling and otherwise improve their public relations program within the store itself.

### Officers Elected

The two-day meeting concluded with an election of officers, naming W. P. Nuffer, president; Melvin Surface, first vice-president; Paul Van Allen, second vice-president, and Mrs. Martha Walker, secretary.

Following adjournment of the state meeting, chapter 12 of the American Association of Nurserymen met in a brief session to elect new officers as follows: James A. Doty, president; W. P. Nuffer, vice-president, and Paul Van Allen, secretarytreasurer. H. H.



Each P & D Rose is budded to an exclusive super strain of multiflora root stock developed after 20 years of selective growing.

EXTRA SERVICE: Each bush is individually top tied and labeled.

> Complete selection of A.A.R.S. Roses Available

HARDIER, MORE LUXURIANT BUSH

THRIVE under any reasonable growing conditions

**FAR LESS DAMAGE** to roots when handling ...

WRITE FOR OUR LATEST LISTS

OREGON'S BEST SOURCE OF GOOD ROSES

"THE FINEST ANYWHERE"



ROSE GROWERS OREGON SCAPPOOSE,

# **K** for Year-Long Happiness

Quality Stock Satisfied Customers Increased Business

### YOU CAN HAVE THEM ALL

IF YOU CARRY



ER ROSES

6708 N. San Gabriel Blvd. SAN GABRIEL. CALIF.



WHOLESALE ONLY

SEND FOR CATALOG

Write for List Today H & S Personality Roses Bred for American Gardens HOWARD & SMITH, INC. MONTEBELLO, CALIF.

**America's Most Complete Collection** of IRISÉS Also DAY LILIES, POPPIES, LILIES and OTHER NEW PERENNIALS. Send for Trade List WALTER MARX GARDENS, Bez 38-AM, BORING, ORE.

## CLASSIFIED AD

Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

DAHLIAS.

Instructions for the next issue must be received by Friday, February 11.

### AZALEAS

AZALEAS
Well-branched liners, for shipment beginning April 1. These are extra nice plants, having been sheared at least twice, with splendid root systems. Let us book your order now!

order now!

ELEGANS INDICA VARIETIES

ELEGANS INDICA ALBA
FIELDER'S WHITE JUDGE SOLOMON
FISHER'S PINK

GEORGE L, TABER

#### AZALEA HINODEGIRI.

Strong rooted cuttings, ready for immediate shipment, \$5.50 per 100, \$50.00 per 1000.

F.O.B. Eddington, Pa.

FERRI'S NURSERY, Eddington, Pa. State Rd.,

Cornwell 0329.

Cornwell 0329.

AZALEAS.

Hino-Crimson, the choice of all who see its deep crimson flowers. Thousands of other beautiful Kurumes, Glenn Dales, etc. Dense, bushy, well-budded—for landscaping and forcing. Book your orders now as they sell out early. Send for new price list of azaleas and large assortment of choice ornamentals.

THE TANKARD NURSERIES,

Exmore, Virginia.

THE EXMORE, VIRGINIA.

AZALEAS.
HINODEGIRI, CORAL BELLS, CHRISTMAS CHEER, FORMOSA, PRIDE OF MOBILE. Strong rooted cuttings, \$30.00 per 1000. Ready for immediate delivery. Rooted outdoors in mixture of peat and loam. Satisfaction guaranteed, Phone 5161.

FORD'S NURSERY,

Magnolia, Miss.

FIELD-GROWN AZALBAS.
ALL SIZES AND VARIETIES
SPECIAL PRICE ON LARGE LOTS
WRITE FOR LIST
LONGWOOD NURSERIES
P. O. BOX 407
MOBILE 3, ALABAMA

AZALEA FORMOSA, ALL SIZES.
Azaleas, many other varieties.
Evergreens and ornamentals.
Write for special quotations.
INWOOD LAKE NURSERIES
Thomasville, Ga.

### BERRY PLANTS

BERRY PLANTS

NEW DURHAM OFF-SEASON
RED RASPBERRY
Ripens mid-August to mid-October. Cut
all canes back to ground each fail. Crop
comes on new growth each year. Eliminates
winter killing.
Durham prices: Up to 3/16-in., \$50.00 per
1000; 3/16-in. to 4/-in., \$75.00 per 1000; 3/-in.
up. \$85.00 per 1000.
Also Gatineau and Madawaska red raspberries, ripen two weeks ahead of Latham;
Latham and Muskoka (midseason); Milton,
a week later.
The new Hisse (late). Strafford (very late)
standberry varieties from Univ. of N. H.
EX. March and the pression of the control of the control

INTRODUCING THE NEW GREAT NORTHERN SEEDLESS BLUE GRAPE, nearly as large as Concord, but much sweeter, hardier, earlier and heavier bearing than Concord. Just as vigorous and healthy Ripens with Moore's Early. 15 years under test. As hardy as Beta, 2-yr. No. 1, \$3.95 each; \$7.25 for 2; cuttings, 5cc each; 3 for \$1.25. 5 per cent discount for cash or free balling. Plants or cuttings that die, replaced at ½ price.

SCHWAB FRUIT FARM & NURSERY 220 N. 5th St. Mankato, Minn.

220 N. 5th St.

SCHWAB GOOSEBERRIES. large as plums, new seedling (world's largest Gooseberries). Berries of the line of the l

220 N. 5th St. Mankato, Minn.

EVERBEARING STRAWBERRY PLANTS.

True to name varieties.

Per 1000 plants.

Streamliner, \$16.00.

Gem and Superfection, \$15.00.

20th Century, \$30.00.

Write for prices on large amounts.

DAVIS PLANT FARM,

Hamilton, Mont.

NEW EVERBEARER STRAWBERRY.
If you want the best, try the "Brunes
Jewel." Extra large plants and berries; excellent quality, red all through; almost immune to insect pests.
\$3.00 per 25, \$10.00 per 100.
BRUNES STRAWBERRY NURSERY,
Originator of new disease-resistant varieties,
Pequot Lakes, Minn.

Improved Senator Dunlap Strawberry
plants, the heaviest bearing berries of them
all for us; grown in Kansas' finest soil;
irrigated; state double inspected. Always
dug fresh and shipped at once. \$3.00 per
1000. P.O.B. Concordia. Better order early;
plants are scarce.
Riley's Nursery, Concordia, Kan.
Strawberry plants, double inspected, north-

Riley's Nursery, Concordia, Kan.

Strawberry plants, double inspected, northern-grown: Duniap, Blakemore, Premier,
Giant Robinson, 1000, \$9.50: 5000, \$45.00.

Giant Gem, Streamliner, Superfection, everbearing, 1000, \$19.00. These are young,
healthy, moss-packed plants, guaranteed to
reach you in good growing condition,
Iowa Nursery, Farmington, Ia.

BEPLIES.

BERRIES. Cumberland Raspberry and Thornless Boysenberry, 1-year tips, \$4.00 per 100, \$37.50 per 1000. WAYNESBORO NURSERIES Waynesboro, Va.

Small Ads Do Great Things in the American Nurseryman Classified Section.

### **BULBS AND TUBERS**

Giant double-flowering Camellia-type, 8 1¼ to 1¼-in. Per 100 Per 1000
1¼ to 2-in. \$.5.5 \$ \$6.50
1½ to 2-in. 8.50 75.00
2-in. up. 12.50 115.00
MAMMOTH, 3-in, UP. 25.00 200.00
Double-flowering Fimbriata Carnation-type,
6 colors.

6 colors.

Per 100 Per 1000
1 1/4 to 1 1/2-in.
1 1.50
1 1/6 to 2-in.
1 1.50
2-in.
1 1.50
1 1/6 to 0.00
1 1/6 to 1 1/2-in.
1 1.50
1 1/6 to 0.00

70 Broadway, New 1012 A.
FANCY-LEAVED CALADIUMS
The finest of commercial named varieties.
ver 50 varieties. Fully upgraded.
Per100 Per1000

No. 3, % to 1%-in. \$7.00 \$60.00 (mainly mixed) \$7.00 \$10.00 \$10.00 No. 1, 1 \$4.00 \$10.00 No. 1, 1 \$10.00 N

Mammoth, 3.72-10.
Orders totaling 1000 bulbs, 10 per cent discount.

Minimum order \$5.00.
Send for our color chart of \$4 varieties.

LOUIS DANK
1170 Broadway.

New York 1, N. Y.

CHOICE COMMERCIAL FLOWER BULBS
For growing or resale. Write for curren
list now or let us know your wants.
REGAL BULB CO.
Holland, Mich.

LARGE-FLOWERING.	Each
Avalon (yellow)	\$0.12
D-Day (rose-pink)	.20
Florists' Beauty (red and white) Gallant Fox (red)	.20
Gallant Fox (red)	.12
Imp. Francis Larocco (yellow)	1.4
Jane Cowl (bronze-yellow)	95
Jean Kerr (white)	.20
Jean Kerr (white)	.12
Jersey's Beauty (pink)	.15
Lady in Red (red Cactus)	.25
Le Toreador (red)	
Marie (salmon-pink)	
Michigan Orchid (purple)	
Michigan White (white)	.20
Mrs. James Albin (vellow)	-15
Mrs. Le Boutillier (velvet carmine)	1.4
Mrs. I. de Ver Warner (lavender)	20
New York Market (white and lavender)	15
Ogden Reid (pink)	.10
Orange Flame (reddish orange)	.20
Orange Flame (reudish orange)	. 44
Queen City (scarlet-pink)	.20
Supt. Amhryn (lavender-pink)	.17
Victory (pink-gold)	.20
Watchung Giant (deep yellow)	.15
White Jersey (white)	.25
White King (white)	.15
White King (white)	
Ike (red)	.15
Lemon Drop (yellow)	15
Lily Belle (pink)	20
White Fawn (white)	15
POMPON-FLOWERING.	. 1.0
Bronze Beauty (bronze)	.14
Cardinal (bright red)	-19
Caldan Ones (mallam)	.20
Golden Queen (yellow)	.12
Little Herman (red and white)	.12
Mary Munns (lavender)	.12
Morning Mist (white and lavender)	.12
Peggy Wood (white and red)	
Rothout (red)	
Yellow Gem (yellow)	.12
Minimum order \$5.00.	
Not less than 5 of a variety.	
LOUIS DANK.	
1170 Broadway, New York 1. ?	V. W.

The lovely "GRAND OPERA SERIES."
These dwarf growing, pastel colors are bringing Cannas back into popularity.
AIDA, old rose and salmon
LA BOHEME, peach pink
LA TRAVIATA, old rose MIGNON, orange pink
MME, BUTTERFLY, shell pink
RIGOLETTO, clear yellow.
2 eyes or more, F.O.B. San Marcos.
1 to 25, 30c each; 100 or more, 27½c.
On small lots, add postage, Cheapest way.
SARVER NURSERY CO.,
San Marcos, Calif.

| San Marcos, Cutin. | GLOXXINIAS. | The best commercial varieties. | Per 100 Per 1000 | 1½ to 1½-in. | \$7.50 \$65.00 | 1½ to 2-in. | 14.00 | 130.00 | 2-in. | UP | 22.00 | 195.00 | Mammoth, 2½-in. up | 35.00 | 300.00 | Minimum order \$5.00. | LOUIS DANK | 1170 Broadway | New York 1, N. Y.

### CAMELLIAS

CAMELLIA SASANQUA LINERS.

HEAVY. BED-GROWN
6 to 8 ins. 8 to 12 ins. 12 to 18 ins.

Annette \$0.15 \$0.17\\ \$0.25\$
Cinderella 15 17\\ 25\$
Cieopatra 16 17\\ 25\$
Mine-no-yuki 16 17\\ 25\$
Mine-no-yuki 16 17\\ 25\$
Rosea 15 17\\ 25\$
Ro

CAMELLIA SASANQUA. Semmes, Ala.

CAMELLIA JAPONICA. Choice pot-grown liners in the better and ewer varieties. Best for canning, shipping

newer varieties, best and transplanting. Write for descriptive price list. OVERLOOK NURSERIES, INC., Mobile, Ala.

FIELD-GROWN CAMELLIAS
ALL SIZES AND VARIETIES
SPECIAL PRICE ON LARGE LOTS
WRITE FOR LIST
LONGWOOD NURSERIES
P. O. BOX 407
MOBILE 3, ALABAMA

#### CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS.
Write for our 1955 HARDY CHRYSANTHEMUM WHOLESALE LIST featuring the famous "Military" Munns, the Universities of Nebraska. Minn., Chicago, Cushion types and many other money-making summer-flowering Munns. Many of these make excellent cut flowers that need no shading to produce flowers in late July and August. Top-quality, strong rooted cuttings and banded plants at competitive prices. SEND FOR LIST TO-DAY.

CORLISS BROS. INC. NURSERIES, 19 Reynard St., Gloucester, Mass.

CORLISS BROS, INC. NURSERIES,
19 Reynard St., Gloucester, Mass.

NEW UNIVERSITY OF NEBRASKA
HARDY MUMS.
Kiowa, heaviculaters of bright reddish
orange pompons. Excellent out flower.
North Platte, massive 5 5-in. flowers
of a bright orange shade.
Rooted cuttings, \$1.80 per 10, \$15.00 per 100.
FLEMING'S FLOWER FIELDS.
3100 Leighton Ave., Lincoln 3, Neb.
FLORETUM COLORFUL GARDEN MUMS.
Bred for early blooming, frost tolerance,
winter hardiness. Ask for new '55 catalog.
PRAIRIE SOUTHWEST FLORETUM,
Fall River, Kan.

#### COTONEASTERS

COTONEASTERS

COTONEASTER PRAECOX.

This is one of the hardiest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fail. It grows rather flat and makes an ideal plant to combine with foundation piantings, especially with ranch-type houses. We can offer the following for 1955:

Strong, 1-year seedlings. 

### DAISIES

Shasta Daisy Charming, everblooming, new, unusually large, perfect single, 4½ to 5-in. flowers, which bloom freely from June through the summer to severe frost. 1-year plants, produced by us, \$25.00 per 100; 25 at 100 rate. Cash with order. We offer the best quality of hardy field-grown plants, including many new and unusual varieties. Write for trade list. Ridenour's Flower Farm, 1024 Chicago Rd., Allen, Mich.

#### DELPHINIUMS

LYONDEL GIANT HYBRID DELPHINIUM.

This strain withstands the combinations of droughty summers and severe winters. Exceptionally large flowers, wide range of beautiful colors, doubles, semi-doubles and singles. (Many customers report better than 90 per cent doubles.)

We should SHOUT more about these LYONDEL HYBRIDS, If you haven't grown them, enjoy the best by test!

FIELD-GROWN PLANTS, mixed colors on \$3.75 per doz., \$22.50 per 100, \$200.00 per 100

CORLISS BROS. INC. NURSERIES, Reynard St., Gloucester, Mass.

Reynard St., Gloucester, Ma
FINEST DELPHINIUM SEEDLINGS.
May sowing, 24-in. rows.
Beliadonna, light blue.
Beliamosum, dark blue.
36.00 per 100, \$57.00 per 1000.
Write for our list of Phiox.
R. M. KELLOGG COMPANY,
The beat since 1869.
Three Rivers, Mich.

### **EVERGREENS**

LINING-OUT STOCK.
Each Each

Fee 100 Per 1000

Blex rotundifolia, TT, bushy, \$0.35

Andromeda Catesbaei (Leucothoe), TT, bushy, \$0.10

Andromeda Catesbaei (Leucothoe), TT, bushy, \$10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

American Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

American Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), TT, bushy, 10 to 12 ins. 50

Afollowed Catesbaei (Leucothoe), 10 t

LINING-OUT STOCK

PRICES SUBJECT TO CHANGE
WITHOUT NOTICE
ALL POTTED LINERS ON THIS LIST
ARE PRICED FOR SHIPMENT IN PAPER
POTS OR CUPS. THOSE WHO PREFEI
THE ORDINARY METHOD OF PACKING,
WHICH OMITS THIS ADDED PROTECTION, MAY DEDUCT IC PER PLANT.
The 1000 rate applies on all orders. therefore, please order in multiples of 25 or more.

EACH

BIOTA AUREA NANA, BERCKMANS 

2¼-in. pots ... 16 2½-in. pots ... 17 BIOTA EXCELSA ... 17

JUNIPERUS CHINENSIS PFITZERIANA
COMPACTA 29 

21/2-in. pots
JUNIPERUS COM, COLUMNARIS
COMPACTA

2¼-in. pots 2½-in. pots JUNIPERUS COMMUNIS CRACOVIA (Polish Juniper)

24-in. pota JUNIPERUS HIBERNICA FASTIGIATA

JUNIPERUS JAPONICA PROCUMBENS 2%-in pots JUNIPERUS JAPONICA VIRGINALIS (Well shaped Juniper)

24-in. pots JUNIPERUS SABINA TAMARISCIFOLIA 21/4-in. pots JUNIPERUS VIRGINIANA KETELEERI 

24-in. pots ABELIA EDWARD GOUCHER 

24-in. pots ..... EUONYMUS RADICANS ERECTA

ILEX CRENATA ROTUNDIFOLIA

(Continued in next column.)

(Continued from previous column.) (Continued from previous column
LAUROCERASUS CAROLINIANA
(Cherry-Laurel)
34-in. seedlings
4x6-in. seedlings
6x8-in. seedlings
24-in. pots, extra heavy
24-in. pots, extra heavy
LIGUSTRUM IONANDRUM
24-in. pots, extra heavy

2 ¼-in. pots, extra heavy 10
2 ¼-in. pots, extra heavy 12
LIGUSTRUM IONANDRUM
2 ¼-in. pots 2 18
2 ½-in. pots, extra heavy 10
2 ½-in. pots, extra heavy 11
2 ½-in. pots 2 18
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2 ½-in. pots 15
2 ½-in.

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EVERGREENS—Continued	GOLDEN GOOSE LINERS.	LINING-OUT STOCK
FIELD-GROWN LINE-OUT STOCK TERMS: SHIPMENTS made on open ac-	For Immediate Delivery or for Reservation. All quotations are for beautiful lining-out	
count if satisfactory credit is established otherwise cash should accompany order. No	stock from 2¼-in. pots, grown in open beds, under field conditions and ready for field planting.	Mucho Pine
COD shipments made	11/74 A 25	2-0, 2 to 4 ins
PACKING costs will be added (on a cost basis) to your invoice. We take every pre- caution to pack our stock so it will reach you	ILEX CORNUTA FEMINA (Chinese	2-0, 2 to 4 ins 2.50 15.00
		Black Hill Spruce, 2-0, 2 to 4 ins
GIVE US specific instructions and routing. If by truck or R.R. freight, be sure to give names of carriers and routing. This is im-	ILEX CORNUTA BURFORDI, 4 to 6 ins	3-0, 4 to 8 ins 5.00 25.00
portant. Snipments are made same day they	10 to 12 ins 16.00	Colorado Blue Spruce, 2-0, 2 to 4 ins
ALL EVERGREENS are priced per each in quantities of 10, 100 and 1000, 25 of any	(Japanese Holly), 6 to 8 ins 12.50	Norway Spruce.
ALL EVERGREENS are priced per each in quantities of 10, 100 and 1000. 25 of any grade or variety at 100 rate. 250 of any grade and variety at 1000 rate.  FIELD-GROWN EVERGREENS	10 to 12 ins	2-1, 3 to 6 ins 5.00 35.00
	CONVEXA, 6 to 8 ins	2-1, 3 to 6 ins 5.00 35.00
JUNIPER KOSTERI Koster's Juniper	American Holly), 6 to 8 ins 17.50 ILEX CASSINE ANGUSTIFOLIA, 6 to 8 ins	2-1, 3 to 4 ins 5.00 35.00 Terms: 2 per cent, cash with order.
50 12 to 15 ins,\$0.80 \$0.75 \$0.70 300 9 to 12 ins,\$60 .55 .50 50 6 to 9 ins,40 .35 .30 JUNIPERUS HIBERNICA FASTIGIATA,	Our hollies are grown from either cuttings	
JUNIPERUS HIBERNICA FASTIGIATA,	or grafts, from well-berried specimens, in- suring berries for you.	available at nursery. Write for complete list.  JOHN G. ZELENKA  EVERGREEN NURSERY
Irish Juniper 900 9 to 12 ins., TTT50 .45 .40 JUNIPERUS PFITZERIANA,	OTHER BROAD-LEAVED EVERGREENS.	Rt. 2, Box 291 Grand Haven, Mich.
Pfitzar Junines	EUONYMUS PATENS (Siebold).	EVERGREENS, ROOTED CUTTINGS
2000 12 to 15 ins., TTT85 .80 .75 7000 9 to 12 ins., TTT65 .60 .55 JUNIPERUS SABINA, Savin Juniper	8 to 10 ins	100 1000
2000 9 to 12 ins. TTT65 .60 .55	(Griffings Waxleaf), 8 to 10 ins. 12 00	Taxus Browni, 5 to 6 ins \$ 9.00 \$80.00 Taxus cuspidata, 6 to 8 ins 8.00 70.00
JUNIPERUS SCOPULORUM, Silver Cedar	PHOTINIA SERRULATA, 6 to 8 ins 16.00	Taxus cuspidata, 6 to 8 ins 8.00 70.00 Taxus capitata, 5 to 6 ins 10.00 90.00 Taxus Hatfieldi, 6 to 9 ins 9.00 80.00
5000 6 to 9 ins. R.P 12 . 10	TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of	Taxus Waymani, 5 to 6 ins 9.00 80.00
JUNIPERUS VIRGINIANA Red Codes	a kind, please, EVERGREEN NURSERIES,	Taxus Wardi, 5 to 6 ins 9.00 80.00 Juniperus (Andorra) plumosa,
5,000 18 to 24 ins., R.P35 .30 .25 15,000 12 to 18 ins., R.P30 .25 .20 PICEA CANADENSIS ALBA, White Spruce	Poplar Pike, Germantown, Tenn.	4 to 8 ins 8.00 70.00 Juniperus communis depressa, 4 to 8 ins 8.00 70.00
PICEA EXCELSA Norway Spruce	ROOTED CUTTINGS.	4 to 8 ins
1,600 12 to 15 ins., R.P20 .18 .15 10,000 6 to 9 ins., R.P09 .07 .05 2,000 4 to 6 ins., R.P07 .05 .03 \( \frac{1}{2} \)	Arborvitae, Green SIZE Per 100 1000	Pyramidal Arborvitae 4 to 5 ins 8 00 70 00
PICEA PUNGENS GLAUCA.	Niagra \$0.08 \$0.07 Arborvitae	Globe Arborvitae, 4 to 5 ins 8.00 70.00 Retinospora, 4 to 5 ins 8.00 70.00 1-YEAR TRANSPLANTS Taxus cuspidata
COLORADO BLUE SPRUCE 6000 6 to 9 ins., R.P., hvy25 .20 .18	pyramidalis6 to 10 ins09 .08 Juniper, Andorra 4 to 8 ins12 .11	Taxus cuspidata
6000 6 to 9 ins., R.P., hvy25 .20 .18 2000 4 to 6 ins., R.P., hvy15 .12 .10 PINUS BANKSIANA, Jack Pine 2000 12 to 18 ins., R.P.,20 .15 .12	Description	Retinospora
2000 12 to 18 ins., R.P		Orders under \$100.00, cash with order, please. Orders over \$100.00, ½ deposit with order. Phone: Oil City 76-251
1000 9 to 12 ins., R.P 15 12 10	Taxus Hicksi 6 to 10 ins09 .08 PLANT BANDS Pfitzer Junipers	NEIDEL'S NURSERY AND GREENHOUSE
20 000 12 to 18 ing R P 20 25 20	Pfitzer Junipers	Mtd. Rt. 4, Hasson Heights, Oil City, Pa.
30,000 9 to 12 ins., R.P	Taxus Hicksi 6 to 8 ins15 .14 Taxus capitata 6 to 10 ins24 .22	ROOTED CUTTINGS Per 100 Per 1000
	Pyramidal	Ambarritan dank aroon Amorican
10,000 12 to 18 ins., R.P30 .25 .20 20,000 9 to 12 ins., R.P12 .10 .08	Arborvitae 6 to 10 ins18 .16  2-YEAR BEDS  Arborvitae, Green	6 to 10 ins
7,000 6 to 9 ins., R.P09 .07 .05 PINUS SYLVESTRIS, Scotch Pine	Niagra	6 to 10 ins 9.00 80.00 Juniper, Pfitzer, 6 to 10 ins 10.00 95.00
2,500 12 to 18 ins., R.P20 .17 .15 10,000 9 to 12 ins., R.P10 .08 .07 4,000 6 to 9 ins., R.P08 .06 .05	Taxus Hicksi (bare-root),	Juniper, Hetzi glauca.
THUJA OCCIDENTALIS WOODWARDI (Woodward's Globe)	12 to 15 ins\$1.00 each	6 to 10 ins
300 12 to 15 ins., TTT85 .80 .75 1500 9 to 12 ins., TTT50 .45 .40 1500 6 to 9 ins., TTT40 .35 .30	Koster Blue Spruce, 21/2-in. pots\$1.25 each Moerhelm Blue Spruce, 21/2-in. pots 1.25 each	Juniper, Andorra, 6 to 10 ins 9.00 80.00 Taxus cuspidata, 6 to 10 ins 9.00 80.00
THUJA ORIENTALIS COMPACTA .30	at cost. Quantities of 5000 or more, write for	Juniper, Andorra, 6 to 10 ins 9.00 80.00 Taxus cuspidata, 6 to 10 ins 9.00 80.00 Taxus Hicksi, 6 to 10 ins 10.00 90.00 FIELD-GROWN EVERGREEN LINERS
(Chinese Arborvitae) 5000 9 to 12 ins., R.P15 .12 .10	special quotations.  DRAKE'S NURSERIES  G-4342 Branch Road	Taxus cuspidata, 8 to 12 ins\$25.00
THUJA ORIENTALIS	Flint 6, Mich.	Arborvitae, dark green American, 8 to 12 ins
(Chinese Arborvitae) 4000 12 to 15 ins., R.P15 .12 .10 4000 9 to 12 ins., R.P12 .09 .07	EVERGREENS Each Pfitzer Juniper, TT, field, sheared,	Arborvitae, Pyramidal, 8 to 12 ins 25.00 Sprng delivery. Cash with order earns free packing. Shipping dates, April 15 to June 15.
4000 12 to 15 Ins., R.P 15 12 10 4000 9 to 12 Ins., II.P 12	8 to 11-in. spread\$0.40 11 to 14-in spread55	DE WINTER'S NURSERY 653 Port Sheldon Rd.
Fremont, Neb.	6 to 8-in, bands	Grandville, Mich.
DELIVERY, SPRING 1955 754 Buxus sempervirens, 2 1/2-in. pots \$0.12	Andorra Jun., bands, 6 to 10 ins	FIELD-GROWN AND POTTED EVERGREEN LINERS.
200 Euonymus vegetus, 2½-in. pots12	Plus Heir Tup bands 6 to 8 inc	
100 Forsythia Spring Glory, 2 ½-in. pots	8 to 10 ins	Andorra Juniper, 1-yr., f.g., 6 to 12 ins. \$12.00 2-yr., f.g., X, 8 to 12 ins. 15.00 Pfitzer Juniper, 2-yr., f.g., 8 to 12 ins. 25.00 3-yr., f.g., X, 8 to 12 ins. 35.00
DELIVERY, SPRING 1958 754 Buxus sempervirens, 2½-1n. pots \$12 400 Euonymus vegetus, 2½-1n. pots 12 200 Euonymus japonica, 2½-1n. pots 12 200 Euonymus japonica, 2½-1n. pots 12 100 Forsythia Spring Glory, 2½-1n. pots 15 100 Forsythia Lynwood Gold, 2½-1n. " 15 164 Hex East Palatks, 2½-1n. pots 17 500 Hex opaca (selected berried), 254-1n. pots 25	Savin Jun., bands, 6 to 10 ins	Sylvester Juniper, 2 % -in. pots 15.00
2 ½-in. pots	Carre meavy	Von Ehron Juniper, 1-yr., f.g., 8 to 12 ins
100 Jasminum nudiflorum, 2½-in. pots12 500 Laurocerasus schipkaensis,	Spreading Jap. Yew, bands, 6 to 8 ins20	8 to 12 ins 12.00
500 Laurocerasus schipkaensis, 20 2700 Ligustrum nepalense, 2½-in. pots. 12 500 Hex Burford, 1-yr., 2½-in. pots. 15 250 Hex Howardi, 2½-in. pots. 17 250 Hex Howardi, 2½-in. pots. 17 250 Hext Juniper, 1-yr., 2½-in. pots. 17 208 Pyracantha, upright; orange berry; 2½-in. pots. 12	Spreading Jap. Yew, bands, 6 to 8 ins 20 Upright Jap. Yew, bands, 6 to 8 ins 20 Dwarf Jap. Yew (nana), bands,	Chamaecyparis cyano viridis, 2¼-in, pots
500 Ilex Burfordi, 1-yr., 2½-in, pots	BROADLEAFS.	Chamaecyparis plumosa aurea, 2¼-in. pots
500 Andorra Juniper, 1-yr., 2½-in. pots17 500 Hetz Juniper, 1-yr., 2½-in. pots17	Euonymus coloratus, 6 to 10 ins., bare-root	8 to 12 ins
308 Pyracantha, upright; orange berry; 246-in, pots	leaved, 6 to 10 ins., bare-root04	Jasminum floridum, Jasminum nudi.
1-yr., 2%-in. pots	variety. Less than 200, add 2c per plant	florum, 2-yr., f.g., XX, 12 to 18 ins 15.00 Mahonia Bealei, 2½-in. pots 20.00 ATHENS NURSERY CO.,
	Book your order for spring. McININCH GREENHOUSES,	Athens, Ala.
500 Viburnum Burkwoodi, 2½-in, pots . 15 2000 Taxus cuspidata, 2-yr., 3½x4 ins33 1000 Taxus cuspidata, 2-yr., 2½-in, pots 22 Terms: Cash.	St. Joseph, Mo.	EVERGREEN SEEDLINGS. Per 100 Per 1000
Small orders, include prepaid parcel post:	EVERGREEN TREE SEEDLINGS. 1000 Scotch Pine, 2-yr., 3 to 9 ins\$25.00	Colo. Blue Spruce, 3-yr., 3 to 6 ins
otherwise we ship express collect.	Scotch Pine, 2-yr., 4 to 12 ins., spec 35.00 Scotch Pine, 3-yr., 6 to 18 ins	Norway Spruce, 3-yr., 6 to 15 ins
Phone 2-2441 Nashville Rd.  Phone 2-2441 Bowling Green, Ky.	Our 2-yr., 4 to 12-in. Scotch Pine is from	
JUNIPER CUTTINGS	seed gathered by ourselves from bluish-green trees of best characteristics. Other grades and kinds of seedlings available. Write for	4 to 8 ins
Unrooted cuttings of Pfitzer Juniper, 6 to 8 ins. long, not trimmed, \$10.00 per 1000. Cash. Express or motor freight.	price list.	
KRONE'S FLOWER SHOP 4221 Grand Ave. Fort Smith, Ark,	Grower of Evergreen Trees, Airport Rd., Phone 2324, DuBois, Pa.	Write for new spring list. ECCLES NURSERIES, Rimersburg, Pa.
	and the second s	and course, rd.

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FEBRUARY 13, 1933
4-YEAR EVERGREEN SEEDLINGS  1. Ins. Per 100 1000  Balsam Fir
Ins. Per 100 1000 Balsam Fir 4 to 7 \$ 8.75 \$43.75
Black Hills Spruce 6 to 14 15.00 75.00 Mugho Pine (Cert. Tyr.) 8 to 12 12.00 60.75 3-YEAR SEEDLINGS
Douglas Fir (Blue)6 to 12 10.75 53.75 Norway Spruce
(fast-growing strain)6 to 12 9.00 45.00
Austrian Pine (Cert. Alps) 4 to 9 7.00 35.78  Jap. Black Pine 7 to 14 7.50 37.50  Scotch Pine (Cert.
Scotch Pine (Cert. Austrian seed)6 to 12 7.00 35.75 Scotch Pine (Western
Scotch Pine (Western Europe)4 to 9 7.00 35.71
(seed from Blue trees) 3 to 7 7.50 37.50
Burope)
368 Eicher Rd., Pittsburgh 2, Pa.
20,000 TAXUS LINERS FROM FIELD BEDS.
Each Per 1000
7000 Taxus Hicksi, 4 yrs., T. 10 to 15 ins
3500 Taxus cuspidata, 5 yrs., T, 12 to 18 ins
3000 Taxus capitata (cuttings), 5 yrs., T, 12 to 18 ins
5 yrs. T. 12 to 18 ins
3000 Taxus cuspidata, 3 yrs., T. 8 to 12 ins
2500 Taxus Hicksi, 3 yrs., T, 8 to 10 ins35 Terms: 300 at 1000 rate, Add 2c per plant
on orders for less than 300 of each variety. Cash with order, or 25 per cent down, bal-
Cash with order, or 25 per cent down, balance C.O.D. Packing free. RANDOLPH NURSERY. 89 Babylon Turnpike, Merrick, L. I., N. Y.
89 Babylon Turnpike, Merrick, L. I., N. Y. Freeport 9-5235.
EVERGREEN LINERS. Each
Cedrus Deodara, 2-year liners,
12 to 15 ins
Prompt shipment of these mail order grades, branched.
grades, branched. Aucuba japonica, variegated; 2-year, 4-in. pots
Aucuba Japonica, green (female),
2-year, 4-in, pots
Mahonia Bealei, seedlings, 1-year grade,
GOOD, UNROOTED CUTTINGS. 5 to 8 ins. long, \$12.00 per 1000. ARBORVITAE, Woodward's Globe Berckman's Golden,
Golden heverlevensis
Baker's Pyramidal. CYPRESS ALUMI, BLUE.
Savin.
Tamariscifolia, Spiny Greek,
Colorado Silver. White's Silver King Juniper (plant patent
No. 1186). (Spreading Silver Juniper attains a height of 10 ins.) Plants from 3-in. pots.
Spiny Greek, Colorado Silver, White's Silver King Juniper (plant patent No. 1186). (Spreading Silver Juniper attains a height of 10 ins.) Plants from 3-in. pots. Each, per 100, 35c; each, per 1006, 55c. WHITE'S NURSERY, 116 S. 9th Ave., Walla Walla, Wash. OUIALITY SEEDLINGS. TRANSPLANTS.
716 S. 9th Ave., Walla Walla, Wash.
9. VEAD SEEDITMOS Don 100 Don 1000
Scotch Pine, 4 to 8 ins \$4.00 \$20.00 Colo. Blue Spruce, 2 to 5 ins 4.00 25.00 Concolor Fir, 4 to 6 ins 8.00 3-YEAR SEEDLINGS
3-YEAR SEEDLINGS Austrian Pine, 8 to 14 ins 6.00 35.00
Norway Spruce 4 to 8 ing 400 3000
American Arborvitae, 4 to 8 ins 5.00 30.00
4-YEAR TRANSPLANTS Norway Spruce, 6 to 14 ins12.00
Cash with order. Packing free.
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Pfitzer Juniper, 8 to 12 ins., 2-yr., TT 40
2-yr. TT40 Pieris japonica, 8 to 10 ins., 3-yr., TT35 Leucothoe Catesbaei, 6 to 8 ins., 3-yr., TT25
Leucothoe Catesbaei. 6 to 8 ins., 3-yr.,
Taxus Spreader, 8 to 12 ins., 3-yr., TT
DUGAN NURSERIES
DWARF BOXWOOD  Border your flower beds and walks with our Old English Buxus suffruticess, several

Border your flower beds and walks with our Old English Buxus suffruticosa, several years old. Field-grown, compact, good color, 4 to 6 ins., \$25.00 per 100; 8 to 8 ins., \$50.00

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CANADA HEMLOCK.

Collected seedlings and transplants.

6 to 9-in. seedlings ... \$4.00 \$20.00
9 to 12-in. seedlings ... \$4.00 \$20.00
12 to 2-in. seedlings ... \$6.00 \$5.00
12 to 3-in. seedlings ... \$6.00 \$5.00
12 to 12-in. seedlings ... \$15.00 \$120.00
8 to 12-in. transplants, 2-2 ... 20.00 \$180.00
8 to 12-in. transplants, 2-2 ... 20.00 \$180.00
These are first-quality. bushy Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.
Send for complete list of lining-out stock.
ISAAC LANGLEY WILLIAMS.
Box AN, Exeter, N. H.

EVERGREEN SEEDLINGS. 100 \$1000
Colorado Blue Spruce, EVERGREEN SEEDLINGS. 100 1000
Colorado Blue Spruce, \$4.00 \$30.00
2-yr., 1½ to 3 ins. \$2.50 20.00
Scotch Pine, 3-yr., 6 to 12 ins. 4.00 30.00
2-yr., 3 to 6 ins. \$3.00 20.00
2-yr., 4 to 6 ins. \$3.00 20.00
Blue Spruce, transplants, 2-1 and 2-2.
Mugho Pine, transplants, 3-2.
HOUTZDALE TREE NURSERY.
336 Elizabeth St. Pittsburgh 21, Pa.
Adolph Kammrath, owner.
HEAVY B&B SPECIMENS. Canadian Hemlock, 2 to 3 ft. \$2.00
Pfltzer Juniper, 4 ft., heavy. 3.50
Hetzi Juniper, 5 to 4 ft., heavy. 3.00
Von Ehron Juniper, 3 to 4 ft., heavy. 1.50
Greek Juniper, 3 to 4 ft., heavy. 2.75
Thula occ, pyramid., 5 to 6 ft., heavy. 2.75
Thula occ, pyramid., 4 to 5 ft., heavy. 2.25
F.O.B. nursery. 10 days' notice must be given before stock to be picked up. Terms: Cash. Cash. TARHEELIAN NURSERIES, Lenoir, N. C. TARHEELIAN NURSERIES, Lenoir, N. C.

RED SPRUCE, BALSAM FIR.

5 to 7-yr. Larger, older, better.

Round needle type, carefully puddled, packed and shipped the same day they are dug. These seedlings are tall enough to survive in bushy grass, trash and weeds. Our customers write us how pleased they are with them. You will be too.

4 to 8 ins. \$35.00 per 1000

8 to 12 ins. \$35.00 per 1000

2 to 20 ins. \$40.00 per 1000

ST. REGIS TREE NURSERY,

St. Regis Falls, N. Y. St. Regis Falls, N. Y.

HEAVY, POTTED EVERGREEN LINERS
Excellent stock under lath. Per 100
Buxus sempervirens, 2\(\frac{1}{2}\)-10, pots, 3-yr. \$22.50
Buxus koreana, 2-ln. pots, 3-yr. 22.50
Juniperus Pfitzeriana, 2-ln. pots, 2-yr. 15.00
Taxus cuspidata, 2-ln. pots, 2-yr. 22.50
Taxus cuspidata, 2\(\frac{1}{2}\)-10, pots, 2-yr. 22.50
Taxus deliksif: 2\(\frac{1}{2}\)-10, pots, 2-yr. 22.50
Taxus Hicksif: 2\(\frac{1}{2}\)-10, pots, 2-yr. 22.50
3-yr., T. 10 to 12 ins. 37.50
Spring delivery. Cash; packing free.
FLORAL GARDENS, EATON, O. FLORAL GARDENS, EATON, O.

JUNIPER GRARTS
Canaerti, glauca, Burki, Keteleeri, Dundee,
chinensis mascula, All on Va understock.
Priced, 40c each; no discount, Terms; Onefourth cash with order and balance before
shipping date, plus packing at cost, All cash
with order earns free packing. Order at
once. Two-thirds sold out now. When better
grafts are made, Crume will make them.

T. C. CRUME NURSERY AND
LANDSCAPING CO.

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#### AMERICAN BOXWOODS.

2 years in bed, \$15.00 per 100, \$125.00 per 1000.

BROWN'S NURSERY, Harmony, N. C.

#### TAXUS CAPITATA SEEDLINGS.

2-year, 4 to 7 ins.,

\$15.00 per 100, \$100.00 per 1000.

GONZALEZ NURSERIES, 247 N. 17th St., Camp Hill, Pa.

	GROWN LINERS.
Juniperus Pfitzeriana,	Eac
9 to 12 ins., XX	
Juniperus Pfitzeriana,	
12 to 15 ins., XX	
	ooted and far abov
verage. Spring shipme	ent.
Cash wit	
DAMASCHE	MUDGEDIES

TAXUS, 2-YEAR
Per 100 Per 1000
CUSPIDATA \$25.00 \$30.00
CAPITATA \$35.00 \$30.00
Moony \$35.00 \$30.00
Hicksi \$35.00 \$30.00
Densiformia \$35.00 \$30.00
These cuttings are extra heavy.
LARRY'S NURSERIES, INC.
\$60 Reservoir Ave. Cranston 10, II. I.

JUNIOR SPECIMEN TAXUS

Field-grown, TTT. Sheared.
TAXUS HICKSI, 24 to 28 ins\$2.26
TAXUS HATFIELDI, 18 to 24 ins 2.25
TAXUS HATFIELDI, 15 to 18 ins 1.85
TAXUS HICKSI, 18 to 24 ins 1.85
TAXUS HICKSI, 15 to 18 ins 1.65
TERMS: CASH with order. Shipped bare-
root, free packing. Limited quantity.
TARHEELIAN NURSERIES, Lenoir, N. C.
JUNIPERS. Each, per 1000
2500 Hetz, transp., 12 to 20 ins\$0.23
2500 Hetz, transp., 8 to 10 ins
600 Hetz, sheared, 18 to 30 ins., B&B., 1.65
250 Andorra, 18 to 30 ins., B&B 1.65
1000 Retinispora plumosa, transp.,
10 to 15 ins
Prices here at nursery in beetle zone.
HOHN NURSERY, R. D. 2, Jeannette, Pa.
2 miles N. of Greensburg, Pa., off Route 66.

#### WELL ROOTED CUTTINGS

				Per 1000
Ilex	rotundifolia,	4	ins	\$50.00

### JOHNSON'S NURSERY Baxter, Tenn.

	BIOTA	ORIEN'		Per 1006
2-yr., 1	0 to 14 ins.			
	3 to 6 ins.			
1-31.,	JUNIPERI	IS VIRC	INTANA	10.00
2-yr.,	6 to 9 ins.			60.00
2-31.1	These are	carefull	y packed.	
	SOUTHE			
Rt. 7,	Box 245A	Oklahe	oma City	9. Okla.
1	EVERGREE	N TIME	DG 100	1000
	rbor Juniper			
	a Juniper, 6			
	tundifolia, 9			
Norway	Spruce, 9 t	o 12, T.	17.50	*****
I	leavy rooted	i, field t	transplant	8.
(	ash with o	rder. Fr	ee packing	gr.
WHER	RY'S NURS	ERIES,	St. Marys,	W. Va.
	AMERIC	AM DOW	THOOD	
	AMERIC	AN BUA	WOOD	Per 100
Durne	nom nonvinon	0.14 -		Fer 100
DUKUM I	emperviren	, neid-g	rown	
	12 ins			
	15 ins			
10 10	18 ins			. 100.00
	PINKSTO	NNUR	SERIES	

Parrott. Ga.		
HEAVY, 2-YEAR SEEDLINGS. Elacagnus Fruitlandi, 10 to 12 ins\$1	100	
Photinia serrulata, 8 to 10 ins 1	2.50	
Quercus acuta (Japanese Evergreen Oak), 10 to 12 ins	5.00	
Immediate delivery. Cash with order ALCOVA NURSERIES, COVINGTON, G	A.	

### EVERGREEN SEEDLINGS

		1000
Scotch Pine, 2-yr., 3 to 7 ins	. 8	18.00
Red Pine, 3-yr., 3 to 8 ins		25.00
Cash with order.		
BELLAIRE GREENHOUSE		
Rellaire Mich		

EVERGREENS.
Potted and field-grown liners.
Juniper, Taxus, Arborvitae.
Write for trade list.
VOGE NURSERY, NEW LEBANON, O.

THUJA OCCIDENTALIS NIGRA.
Strong 2-year liners, 0 to 3 ins.,
in 2%-in. rosepots, \$160.00 per 1000.
CARTWRIGHT NURSERIES,
Collierville, Tenn.

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JAPANESE BLACK PINE
4 to 7 ft., about 600, also Hybrid Rhododendrons, 18 to 30 ins. Also Hybrid Rhododendron grafted liners for spring, 1955.
Write for list of varieties.
PARMENTIER'S ROSES
Grady St., Bayport, L. I., N. Y.
Phone: 8-0811 or 8-2331

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#### DWARF APPLE STOCKS

We are making 20,000 piece-root grafts of Malling I, II and VII, for early spring, 1955, delivery.

These can be budded in August, 1955.

Write for particulars and prices.

LORNE J. DOUD Route 1 Wabash, Ind.

FLOWERING CRAB APPLE GRAFTS.

ATROSANGUINEA
ALMEY
DOLGO
BLEYI
10.00 per 100, \$45.00 per 1000.
APPLE GRAFTS.

GRIMES GOLDEN
JONATHAN
MCINTOSH
ROME BEAUTY
RED DELICIOUS
TEL DELICIOUS
TEL TRANSPARENT
\$5.50 per 100, \$45.00 per 1000.
PRICTCHARD'S NURSERIES, Ottawa, Kan.

CHINESE CHESTNUT TREES

Row run, culis out, 3-yr. old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20%, in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales. F.O.B. Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr. old liners in quantities. Write for prices

GOLD CHESTNUT NURSERY Cowen, W. Va.

CHINESE CHESTNUT
USDA No. P. I., 58602.
Has proven, so far, as best
for general planting.
2 to 3 ft., 2-yr., per 5, \$7.50; 10. \$14.00
3 to 4 ft., 2-yr., per 6, \$8.75; 10. \$16.00.
WHITFORD NURSERY, FARINA, ILL.

### **GROUND COVERS**

VINCA MINOR, HARDY MYRTLE, PERIWINKLE.

VINCA MINOR, HARDY WIRTLE,
PERIWINKLE.

Best all-purpose, quality ground covers,
made up 15 to 20-cane clumps, Plant ali
year round, \$55.00 per 1000.
Pachysandras, 1-year, rooted cuttings,
\$55.00 per 1000.
Hall's Lonicera Honeysuckle, \$45.00 per
1000, branched.

H. C. WAUGH,

745 Boulevard Dr.,

PACHYSANDRA TERMINALIS — strongrooted cuttings, \$3.75 per 100, \$3.50 per 1000;
\$32.50 for any order of 5000 or more.
Prompt shipment, Beetle zone only.
DUNWOODIE NURSERIES.

6 Smart Ave.,

Yonkers, N. Y.

6 Smart Ave., Yonkers, N. Y.
Phone: Yonkers 5-1473.

PACHYSANDRA TERMINALIS. Strong, 1-yr., field-grown, \$65.00 per 1000. HILLCREST GREENHOUSES, Franklin, Pa.

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MESEMBRYANTHEMUMS.

Now you too can have these wonderful mass-blooming new originations to propagate from or sell.

Formerly, exclusively sold in gallon cans here in Southern Calif. We are now expanding our facilities to ship to all parts of the United States.

Semi-hardy to 25 degrees above zero outside, but can be grown under glass for spring nursery sales.

Write for list and prices.

Write for list and prices.
ROY ZILK'S NURSERY,
602 Lomita St.,
El Segundo, Calif.

NEW HARDY PERENNIALS.
Our new list, a copy of which is awaiting your request, includes an outstanding assortment of new introductions.
FLEMING'S FLOWER FIELDS,
3100 Leighton Ave.,

LIRIOPE, THE IDEAL EVERGREEN, everlasting border plant, sun or shade; hardy to New York. Our stock is excellent. Can supply most any quantity. Send for catalog. Majestic, heavy divisions \$3.00 \$12.00 \$100.00 \$2-yr. clumps ... 7.00 \$5.00 \$2.00 \$12.00 \$100.00 \$2-yr. clumps ... 5.00 \$0.00 \$2.00 \$12.00 \$100.00 \$2.00 \$100. RIEGEL PLANT CO., EXPERIMENT, GA.

GERBERAS, PRIZE-WINNING STOCK.

GERBERAS, PRIZE-WINNING STOCK.

Per 100 Per 100

Small (Duplex) . \$11.00 \$100.00

Large (Duplex) . \$15.00 \$135.00

Jumbo (Duplex) . \$25.00 \$25.00

DOUBLES, EXTRA CHOICE, 10 SEPARATE COLORS; Sturdy divisions, \$37.50 per 100, \$350.00 per 1000.

250 takes 1000 price, F.O.B. San Fernando. Other fine perennials, Write for catalog, FEADER WHOLESALE NURSERIES, P. O. Box 428.

P. O. Box 428,
HBISCUS, HENDERSON'S GIANT HYBRIDS, mixed. Hardy from Florida to Canada. These magnifecent hybrids produce 8
to 12-in, blossome, red. white and pink; easlly grown, long blooming season. An ideal
mail order item. Liners, \$2.90 per doz., \$10.90
per 100, \$60.00 per 1000. Heavy stock, \$4.00
per doz., \$20.90 per 100, \$150.00 per 1000, All
blooming size. Send for wholesale list.
RIEGEL PLANT CO., EXPERIMENT, GA.

MAMMOTH SAGE.
Famous Holt strain. Dried leaves used for easoning sausage, dressing, etc. Beautiful due-flowering hardy plants, grow for years (thout replanting.

1-year, field-grown \$2.00 \$6.00 2-year, field-grown \$2.00 \$6.00 Tipp City, O.

Tipp City, U.

HELLEBORUS NIGER
(Christmas Rose)
Our own grown.
3-yr. transplants
\$50.00 per 100
\$450.00 per 1000
C. HOOGENDOORN
Newport, R. I.

18 to 24 ins...

Send for wholesale list.

RIEGEL PLANT CO., EXPERIMENT, GA. Hardy perennial Verbenas, Dazzling Red and Apple Blossom, field-grown plants, not rooted cuttings, \$9.50 per 100, \$75.00 per 1000. Shipment when wanted. Roy Harrell Nursery, Fayetteville, Ga.

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New and standard kinds.

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Colorful Mums, perennials, Ask for catalog.
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We specialize in furnishing hardwood cuttings to the trade. Because it takes time is process them, we especially urge early reservation of needs.

We cut a little over 7 ins. Tie in 100. Please order in multiples of 100. Where case accompanies order, packing is free. We guarantee delivery in good condition.

Per 1000.

\$ 5.00 riesse of the manufactures of the control of guarantee delivery in good condition.

Aronia melanocarpa
Cornus paniculata
Sibirica
Amomum
Forsythia intermedia
Spectabilia
Spectabilia
Primulina
Ovata
Hydrangea P.G.
Hydrangea P.G.
Hydrangea P.G.
Hydrangea A.G.
Privet, Amur (North)
Regel (true)
Honeysuckle, Morrowi
Bella albida
Bella rosea
Tatarica rosea
Korolkowi
Zabeli
Diervilla trifida
Philadelphus grandiflorus
Bouquet Blanc
Amalthee
Coronarius
Physocarpus, opulifolius aureus.
Opulifolius nanus
Sorbaria sorbifolia
Spiraca Billiardi rosea
Froebeli
Thunberg
Wanhouttel
Gobern Phite
Wiburnum dentatum
Poplar, Lombardy
Willow, Niobe weeping
Pussy
Dwarf, Arctic
Arborvitae Wareana (Siberian)
Globe
Retinospora plumosa
Juniper, Pfitzer
Andorra
Savin
Taxus, cuspidata 4.00 4.00 5.00 4.00 4.00 4.00 5.00 4.00 5.00 15.00 15.00 15.00 15.00 15.00 15.00 Juniper, Pfitzer
Andorra
Savin
Taxus, cuspidata

Canadensis ... GROVE NURSERY,

HOLLI					
	HOLLY.				
Strong, health	ly stoc	k.			
	6 to	8 to	12 to		
Priced per 100	8 ins.	12 ins.	18 ins		
lex Burfordi	\$15.00	\$17.50			
lex o, East Palatka	. 15.00	17.50	\$20.00		
lex o. Howardi	. 15.00	20.00			
lex o. Croonenburg	15.00		***		
lex rotundifolia			17.50		
Field-grown, bushy			40.00		
STEPHENS NU					
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### ILEX CRENATA ROTUNDIFOLIA.

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OREGON ENGLISH HOLLIES
Cut holly. General nursery stock.
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Strong 2 ½-in. pots, pinched back, \$13.50 per 100, \$130.00 per 1000. Spring shipment; beetle zone only. Packing free for cash.

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can ship now or later, 25 per cent down to reserve.
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De

Russell Breece, Delaware, O. MAN

20.00

HARDY ENGLISH IVIES.
Hedera gracilis, small-leaved English Ivy.
Excellent close netting ground cover. Rootid cuttings, \$5.00 per 100, \$45.00 per 1000.
HEDERA BALTICA, best evergreen Ivy.
Rooted cuttings, \$5.00 per 100, \$45.00 per

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LINING-OUT STOCK BEDDED STOCK				
		\$180.00		
Ilex convexa		180.00		
llex rotundifolia	25.00	180.00		
Taxus Andersoni	20.00	175.00		
Taxus brevifolia	20.00	110.00		
Taxus Browni	17 50	150.00		
Taxus canadensis stricta	17.50			
Taxus capitata, cutting				
Taxus cuspidata	17.50	150.00		
Taxus Hatfieldi	17.50	150.00		
Paxus Hicksl	17.50 17.50	150.00		
Parus intermedia	17 80	150.00		
SEEDLINGS AND TRANS	PI.AN	TS		
Abies Douglasi, 2-yr., S	4.00	35.00		
Abies Nordmanniana, 1-yr., S.	10 00	90.00		
Acer palmatum, 1-yr., S	6.00	50.00		
cer palmatum, 2-yr., S	6.00	65.00		
Acer palmatum atropurpureum,				
1-vr. S	22.50	200.00		
1-yr., S	15.00			
2-уг., S	3.00	25.00		
Cornus florida, 1-yr., 9	6.00			
Cornus florida, 2-yr., S	7.50	65.00		
Jornus wanthocarna 2-vr S	20.00			
Supressua Lawsoniana, 2-vr., S.	5.00			
Cuonymus alatus, 1-yr., S	3.50			
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1-vr., S	5.00	40.00		
lex crenata, 2-yr., S	10.00	90.00		
lex crenata, 2-yr., S		30.00		
Picea Engelmanni, 3-yr., S	5.00	40.00		
cea excelsa, 2-yr., S	2.50	20.00		
Picea canadensis, Z-yr., S.  Picea Engelmanni, 3-yr., S.  Picea excelsa, 2-yr., S.  Picea pungens, 2-yr., S.  Pinus austriaca, 2-yr., S.  Pinus densifiora, 3-yr., S.  Pinus Mugo, Tyr., 2-yr., S.  Pinus densifora, 3-yr., S.	3.50	30.00		
Pinus austriaca, 2-yr., S	7.00	60.00		
Pinus densiflora, 3-yr., B	7.00	60.00		
Pinus Mugo, Tyr., 3-yr., S	6.50	60.00		
inus resinosa, 3-yr., S	7.00	60.00		
Pinus Strobus, 3-yr., S	4.50	40.00		
Pinus sylvestris, 3-yr., S	6.00	50.00		
inus Thunbergi, 3-yr., S	6.50	60.00		
Pinus Mugo, Tyr., 2-yr., S. Pinus resinosa, 3-yr., S. Pinus Strobus, 3-yr., S. Pinus Strobus, 3-yr., S. Pinus Thunbergi, 3-yr., S. Pinus Thunbergi, 3-yr., S. Pinus Thunbergi, 3-yr., S. Parus capitata, 1-yr., S. Parus capitata, T., 1-yr., S. Parus capitata, T., 2-yr., S.	4.00	30.00		
axus capitata, 1-yr., S.	5.00	40.00		
faxus capitata, T., 1-yr., S	6.00	50.00		
axus capitata, T., 2-yr., S	16.00	150.00		
suga canadensis, 2-yr., T	9.00	80.00		
HEAVY, FIELD-GROWN	STOC	K		
Bare-root and ready for (	Clover	set pots		
		Per 100		
cer palmatum atropurpureum,				
15 to 18 ins		.\$400.00		
ornus florida, 2 to 3 ft., bushy		. 80.00		
fornus florida rubra, 18 to 24 in	ns	. 125.00		
16 to 18 ins		. 100.00		
The above stock has been	severa	times		
ransplanted. Special price on ies. Full list on demand.	large	quanti-		

	JUNIPER LINERS.
For	spring planting, field-grown.
	Per 10
Inninerna	communis Ashfordi (Ashford)
1-ve 8	to 12 ins\$10.0
0 vn 16	to 15 ins 15.0
Z-yr., 14	communis cracovia (Polish)
Juniperus	to 12 ins
Z-yr., 8	
Juniperus	communis depressa
1-yr., 8	to 12 ins 12.5
Juniperus	communis fastigiata
	roved Irish)
1-yr., 6	to 8 ins 10.0
1-уг., 8	to 12 ins 12.5
2-yr., 12	to 15 ins
Juniperus	communis hibernica (Irish)
	to 8 ins 10.0
1-yr., 8	to 12 ins 12.5
2-yr., 13	2 to 15 ins 15.0
Juniperus	communia Kiyonoi (Kiyonoi)
1-vr. 8	to 12 ins 12.5
	to 15 ins
	glauca Hetzi (Hetz)
1-Vr 6	to 8 ins 10.0
	to 12 ins
	horizontalis plumosa
(And	
1-wn 6	to 8 ins 10.00
	to 12 ins
Inninanna	Cabina (Carin)
uniperus	to 8 ins 10.00
1-yr., 6	to 8 ins
1-yr., 8	to 12 ins 12.5
	to 12 ins 15.0
	Sabina tamariscifolia
	to \$ ins
1-yr., 8	to 12 ins 22.5
	Sabina Von Ehron (Von Ehron)
	2 to 15 ins 20.0
Juniperus	Sylvester
2-yr., 13	2 to 15 ins 25.0
Inninorma	Vincinalia
1-yr., 6	to 8 ins
2-vr. 8	to 12 ins 20.00
The as	me quality stock we have been
Offering 1	he wholesale trade for the past 2

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LINING-OUT EVERGREENS. Abelia grandifiora, 1-year, T. Abies balsamea, 4 to 6 ins, X. Abies Velichi, 4 to 6 ins, X. Arborvitae Bakeri, 10 to 14 ins, X. Arborvitae Bonita, 2-year, T., large. Arborvitae Boothi, 4 to 6 ins, X. Arborvitae Boothi, 6 to 8 ins, X. Arborvitae Columbia, 8 to 12 ins, X.	15.00
Abies Veitchi, 4 to 6 ins., X	15.00
Arborvitae Bakeri, 10 to 14 ins., X	25.00
Arborvitae Boothi, 4 to 6 ins. X	17.50
Arborvitae Boothi, 6 to 8 ins., X	22.50
Arborvitae Columbia, 8 to 12 ins., X	27.50
Arborvitae elegantissima, 6 to 5 ins., A.	22.50
Arborvitae elegantissima, 6 to 8 ins., X Arborvitae globosa, 6 to 8 ins., X Arborvitae nigra, 4 to 6 ins., X Arborvitae pyramidalis, 4 to 6 ins., X	17.50
Arborvitae pyramidalis, 4 to 6 ins., X	17.50
Arborvitae pyramidalis, 6 to 8 ins., X. Berberis Julianae, 4 to 6 ins., X. Berberis Julianae, 6 to 8 ins., X. Berberis Julianae, 10 to 12 ins., X. Berberis Julianae, 10 to 12 ins., X. Buxus Japonica, 8 to 10 ins., X.	28.50
Berberis Julianae, 6 to 8 ins., X	22.56
Berberis Julianae, 10 to 12 ins., X	35.00
Buxus japonica, \$ to 10 ins., X	17.50
Buxus sempervirens, \$ to 12 ins., X Buxus suffruticesa, 4 to 6 ins., X	27.50
	22.50
llex crenata, 6 to 8 ins., X	22.50
llex crenata, 6 to 8 ins., X  llex rotundifolia, 4 to 6 ins., X  Juniper, Andorra, 6 to 8 ins., X  Juniperus Hetzi glauca, 6 to 8 ins., X  Junperus Hetzi glauca, 6 to 10 ins., X	17.56
Juniperus Hetzi glauca, 6 to 8 ins., X.,	22.50
Junperus Hetzi glauca, 8 to 10 ins., X.	25.00
Juniper, Irish, 6 to 8 ins., X	22.50
Juniperus Von Ehron, 14 to 16 ins., X	30.00
Kalmia latifolia, 1-year, trays, 2 to 8 ins	18.00
Ligustrum lucidum (spr.), 6 to 8 ins.,	22.50
Ligustrum lucidum (spr.), 8 to 10 ins.,	25.00
Ligustrum lucidum (upr.), 6 to 8 ins.,	99 50
Osmanthus Aquifolium, 3-in. pots Pyracantha C. Lalandi, 24-in. pots Regel Privet, 2-yr. beds	20.00
Pyracantha C. Lalandi, 24-in. pots	30.00
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8 ins., X	22.50
Taxus cuspidata, 4 to 6 ins., X	17.50
Taxus Halloran, 4 to 6 ins. X	17.50
Taxus Hatfieldi, 4 to 6 ins., X	17.50
Taxus Hatfieldi, 6 to 8 ins., X	22.50
Taxus Hicksi, 4 to 6 ins., X	17.50
Taxus Jeffrey's, 6 to 8 ins. X	22.50
Write for our complete list of stock	k. 25
Retinispora Squarrosa Veitchi, 6 to 8 ins., X	King.
TOP-GRADE LINERS.	

a or orner	77		
		ch per 100	
			12 to
1-yr., field-grown 8	ins.	12 ins.	15 ins.
Andorra Juniper\$	0.10	* * *	\$0.123
Ashford Juniper Compact Pfitzer Jun	.10	\$0.12	***
Compact Pfitzer Jun	.15		
English Juniper		.16	.20
Greek Juniper	.12	.15	***
Hetz Juniper	.15	.17%	
Irish Juniper	.10	.12	
Polish Juniper	.10	.12	
Pfitzer Juniper		.1716	***
2-YEAR TRA	NSPI	LANTS	
Ashford Juniper		15	.20
English Juniper		.15	.20
Hetz Juniper	20	9.9	
Hetz Juniper Irish Juniper		15	90
Compact Pfitzer	18	20	25
Compact Pfitzer	15	272	
Abelia grandiflora, 1-yr	.10	. 1 4 72	20 1
Ilex crenata rotundifolia			
f to 9 ing	2, 4	to a ma.	
6 to 8 ins		******	*** **
Nandina domestica, 4 to			
6 to 8 ins	****		1
BED-GROWN: Hex Bu	riore	11, 2-yr.,	
15 to 36 ins			2
Photinia serrulata, 1-yr.	, 8 1	to 15 ins.	1
Ligustrum lucidum com	. 1-3	Tr.,	
12 to 18 ins		*******	1
Sargent Barberry, 1-yr.			1
Magnolia grandiflora,	-yr.		1
POTTED LINERS, 1-	УГ	under la	th, 214
in. pots.			
Potted Liners, 1-yr. und	ler l	ath. 214 -	in, pots
ARBORVITAES: Ber	kma	ns' Biot	a aure
nana, 18c: Biota benit	a g	lobe, 18c	: Sibvl
nana, 18c; Biota bonit Arborvitae, 18c.	-		
JUNIPERS: Andorra,	15e:	Canadia	in Gold
en depressa, 20c. Gre-	ek.	16c: Iris	sh. 15c
Polish 15c: Hetzi 18c:	Pfitz	er 18c :	Compac

en depressa, 29c. Greek, 16c; Irish, 15c; Polish, 15c; Hetzi, 18c; Ptizer, 18c; Compact Pfitzer, 18c; Von Ehron, 18c.
TAXUS: Browni, 16c; Hicksi, 16c; mixed lot of cuspidata and capitata, 2-yr., 4 in pot, 25c.
ILEX: Burfordi, 15c; rotundifolia, 15c; Bullata, 15c; East Palatka, 18c.
NANDINA DOMESTICA, 15c; Euonymus Japonicus, 15c.
TERMS: 2 per cent discount for cash with order, free packing, Add 2c for each plant on orders for less than 250. Priced F.O.B. nursery.

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WYMANS NURSERY,
Ph. Columbus 5221, Kolola Springs, Miss.

201200000000000000000000000000000000000	Each
Pfitzer Juniper, TT, field, sheared,	
8 to 11-in. apread	
11 to 14-in. spread	
14 to 16-in. spread	
6 to 8-in, bands	
8 to 10-in, bands	.20
Andorra Jun., bands, 6 to 10 ins	.12 1/4
extra heavy	.16 %
Blue Hetz Jun., bands, 6 to 8 ins	.12 1/2
8 to 10 ins	.161/2
Greek Jun., bands, 6 to 8 ins	.14%
Savin Jun., bands, 6 to 10 ins	.12 %
extra heavy	.16 1/9
Von Ehron Jun., bands, \$ to 10 ins	.12 1/2
extra heavy	.16 1/4
heavy rooted, 8 to 10 ins. (topped) Spreading Jap. Yew, bands, 6 to 8 ins.	.06
Spreading Jap. Yew, bands, 6 to 8 ins.	.20
Upright Jap. Yew, bands, 6 to 8 ins	.20
Dwarf Jap. Yew (nana), bands.	
4 to 6 ins	.16
4 to 6 ina BROADLEAFS	
Euonymus coloratus, 6 to 10 ins., bare-	
root	.03 %
Euonymus patens, small or large	
leaved, 6 to 10 ins., bare-root	.04
small leaved, bands	.10
DECIDUOUS, Bare-root.	
Blue-leaved Arctic Willow, & to 8 ins	.06
Buddleia Snowbank, long spike,	
6 to 8 ins	.06
Chinese Beauty-Berry (Callicarpa).	
6 to 10 ins	. 03 %
Desmodium penduliflorum, 6 to 6 ins	.05
Deutsia gracilis, bands, 6 to 8 ins	
Forsythia Lynwood Gold, 5 to 8 ins	.08
Forsythia Spring Glory, 6 to 8 ins	0.4
Golden vicari Privet, variegated,	
bare-root, 6 to 10 ins.	.04
Privet, Regels, 6 to 10 ins	.03 %
Weigela, dwarf, variegated; 3 to 5 ins.	04
Weigela Eva Rathke, red; 4 to 6 ins	0.6
Weigela roses, 4 to 6 ins	0.4
PERENNIALS.	
Lythrum Mordens Pink, 4 to 6 ins	.03
Lythrum Mordens Pink, light field,	
September transplants	.06
All prices 300 or more total order, b	O OL H
variety. Less than 300, add 2c per pla	int.
Book your order for spring.	
McININCH GREENHOUSES	
St. Joseph, Mo.	
DIDIO ODOWN BURDODREN LINE	5 M / C

EVERGREENS

FIELD-GROWN EVERGR	REN LI	NERS
Proposition at a talent		Per 1000
Andorra Juniper, 1-year,	2 01 100	1 01 1001
6 to 12 ins	80.1234	80.10
Ashford Juniper, 1-year,	40122 /8	*****
6 to 12 ins	.1236	.10
2-year, 6 to 18 ins		
Fastigiata Juniper, 1-year,		
6 to 12 ins	.12%	.10
2-year, 6 to 18 ins		.15
3-year, 12 to 30 ins		.17 %
Greek Juniper, 1-year,		
6 to 12 ins	.12 %	.10
Irish Juniper, 1-year,		
6 to 12 ins		.10
2-year, 6 to 1% ins	.17%	.15
Pfitzer Juniper, 1-year,		
6 to 12 ins	.17%	.16
2-year, 8 to 15 ins	.32 1/2	.30
Pfitzer Juniper compacta,		
1-year, # to 12 ins	.17 1/9	.15
Sabina (Savin) Juniper, 1-yea		10
6 to 12 ins	.12 1/4	.10
2-year, 8 to 15 ins	.17 1/2	.15
Abelia grandiflora, 1-year,	10	.07 %
6 to 12 ins		
Pink Flowering Dogwood,	12 10	TR Inc
bare-root, 1-year, 76c each.	10 10	3.0 1110-
Double-flowering Peaches,	FR 40	19 ine
15c; 18 to 24 ins., 17 %c. Cole	ora: Red	. white
pink.	orm. Acce	a, wante,
Bed-grown Nandina seedling	nes. 3 to	o 4 ins.
\$50.00 per 1000; 4 to 6 ins.,		

LINING-OUT STOCK—Continued	LINING-OUT STOCK Each
WE GUARANTEE SATISFACTION FROM THESE TOP-QUALITY LINERS!	Abies Pinsapo, 3-in. pot. \$20.30 Daphne Cheorum, 2-in. pot. \$2.30 Daphne odora, 2-in. pot. 1-yr. \$2.20 Daphne odora, 3-in. pot, 2-year. \$4.20 Daphne Mezereum, \$5.00
Priced per 100. 6 to 8 to 12 to	Daphne odora, 2-in. pot, 1-yr
8 ins. 12 ins. 15 ins. Abelia Edw. Goucher	
Buxus Harlandi\$10.00 12.50 Gardenia Mystery 10.00 \$12.50	6 to 8 ins
Gardenia stricta nana 8.50 10.00	12 to 14 ins
Gardenia Mystery	12 to 14 lins
Ilex crenata microphylla, 12.50 15.00 Ilex crenata rotundifolia, 10.00 12.50	Japanese Maple, 2-yr., S
Ilex vomitoria femina 12.50 15.00 Ligustrum lucidum	Pieris japonica, 4 to 6 ins., br
compactum 10.00 15.00	8 to 10 ins., br., X
Magnolia fuscata 10.00 12.50 17.50 Osmanthus fragrans 12.50 15.00 Photinia glabra 10.00 12.50	Raphiolepis ovata, 2-yr., T
Photinia serrulata 4 to 6 ins\$10.00 12.50	FOUR STAR NURSERY 8215 238th., S.W. Edmonds, Wash.
Viburnum odoratissimum 10.00 12.50 4 to 6 to 8 to 6 ins. 8 ins. 12 ins.	LINING-OUT STOCK. Nice, healthy, well-rooted stock.
CONIFERS Juniperus communis	Priced per 100.  6 to 8 to 8 ins. 12 ins.
Kiyonoi	Buxus Harlandi
Juniperus Pfitzeriana 12.50 15.00 20.00 Juniperus sylvestris 10.00 12.50 17.50	Ruyug gemnervireng 1950 1750
Podocarpus sinensis 10.00 15.00 17.50 Write for our latest catalog listing many	Elaeagnus Fruitlandi 12.50 15.00
other liners, both potted and bed-grown and also container-grown stock.	Cardenie Fertungi Guava) 12.50 15.00
Rt. 4, Box 130 Mobile, Ala.	Gardenia radicans 7.50 10.00
QUALITY LINERS.	Hex crenata convexa (bullata) 15.00 20.00
3,000 Ampelopsis veitchi, 2-yr., TT. F.R	Ilex crenata rotundifolia       15.00       17.50         Ilex vomitoria       (Yaupon)       15.00       17.50
5,000 Azalea mollis, 2-yr., T., 25.00 200.00 5,000 Azalea mollis, 3-yr., T., 35.00 300.00	Magnolia grandiflora       10.00       12.50         Osmanthus fragrans       12.50       15.00         Retinospora ericoides       10.00       12.50
1.800 Cornus Kousa, 1-vr. S.	BLACKWELL NURSERIES
1,000 Euonymus radicans, 2-yr., TT., F.R., 4 to 5 ins., 35,00 300,00	Semmes, Ala. Wholesale only.
1,000 Euonymus radicans Carri- erei, 2-yr., TT., F.R.,	Per 100 Clevera Japonica ins.
4 to 6 ins	2-yr., ST \$15.00
9 to 12 ins	Hex C. Burfordi\$15.00 \$17.50 17.50 Hex cornuta Femina 15.00 17.50 17.50 Hex C. convexa
3,000 Pieris Japonica, 1-yr., T. 10.00 90.00	(Bullata)
1,000 Quercus borealis, 1-yr., S 7.00 60.00 2,000 Rosa rugosa, 1-yr., S 5.50 45.00	
1,500 6 to 8 ins	Hex onaca East Palatka 17.50
1,000 Wistaria sinensis, 1-yr., S 4.50 35.00	Osmanthus Fortunei 12.50 15.00 Osmunthus fragrans 12.50 15.00 17.50 Pyracantha formosana
2 to 3 mm 2.50 18.00	Per 100 8 to 12 12-18 18-24
0,000 Rosa multiflora, grafting size 5.00 40.00	Magnolia Soulangeana \$25.00 \$30.00 \$35.00 Write for our descriptive list of our com- plete offering of Camellias, Azaleas, Magno-
5,000 Rosa rugosa, 12 to 15 ins., T 25.00 200.00	
5,000 Rosa rugosa, 15 to 18 ins., T 35.00 300.00 2,500 Thuja occidentalis,	OVERLOOK NURSERIES, INC., Crichton Station, Mobile, Ala.
T—once transplanted. TT—twice transplanted. F.R.—field row.	LARGE QUALITY LINERS 3 to 4 years, field-grown transplants. Each Each
F.R.—field row. Samples mailed on request. BOULEVARD NURSERIES,	Hex crenata (Jap. Holly). per 100 per 1000
Newport, R. I.	12 to 15 ins
LINING-OUT STOCK Young, thrifty stock, bed-grown,	12 to 15 ins
Young, thrifty stock, bed-grown. 6 to 8 to 12 to 18 to Priced per 100 8 ins. 12 ins. 18 ins. 24 ins.	Thuja occ. pyramidalis, 12 to 15 ins
Fardenia Mystery. 8.50 \$10.00 \$12.50	Thuja occ. plicata, 12 to 15 ins35 Thuja occ. compacta.
nana 10.00 12.50	8 to 10 ins
linum 7.50 10.00 ligustrum luc.	BULK'S NURSERIES
compactum 10.00 12.50 15.00 fagnolia fuscata 15.00 17.50 fagnolia alba	Babylon, L. I., N. Y. LINING-OUT STOCK
superba 35.00 \$45.00	Per 100
Soulangeana 35.00 45.00 Magnolia nigra 25.00 30.00 35.00 Mandina domestica 7.50 10.00	Ilex crenata convexa, 3-in. pots\$20.00 Ilex crenata rotundifolia, 3-in. pots 20.00 Ilex cornuta Burfordi, 3-in. pots 20.00
odocarpus	
sinensis 10.00 12.50	Ligustrum lucidum (wax-leaved)
piraea Reevesian (field) 15.00 20.00 (ylosma, 3-in, pots 15.00 STEPHENS NURSERIES,	3-in. pots
Semmes, Ala.  ILEX ROTUNDIFOLIA.	They are ready for containers or field, being well established in the pots with 10 to 15-in. top growth. Many of them have a few
-in, rosepot, 1-yr., 4 to 6 ins\$18.00 per 100 %-in, rosepot, 1-yr., 8 to 5 ins. 15.00 per 100 FORSYTHIA LYNWOOD GOLD.	derries.  GOLDSBORO NURSERY, GOLDSBORO, N.C.
cooted cuttings 12.00 per 100	TINING OUR OROGE
CARYOPTERIS.	Lonicera, dwarf (Claveyi) Clavey's Dwarf, R.C., 11 to 12 ins., 20 10
looted cuttings 10.00 per 100	Lonicera, dwarf (Claveyi) Claveyi Claveyis Dwarf, R.C., 11 to 12 ins\$0.10 Lonicera Ruprechtiana, Manchurian Honeysuckie, R.C., 8 to 12 ins06 Crataegus Crus-galli, Cockspur Thorn,
-in pote PRIVET VICARI.	Crataegus Crus-galli, Cockspur Thorn, seedlings, 6 to 8 ins
tooted cuttings 10.00 per 100 EDWARD GILSON & SON NURSERY.	EUGENE A. de ST. AUBIN & BRO., INC.

EUGENE A. de ST. AUBIN & BRO., INC., Addison, III.

Each \$0.35 .200 .255 .455 .200 .275 .122 .155 .200 .255 .122 .155 .255 .18	Ilex  (
	P
8 to 17.50 17.50 17.50 17.50 15.00 15.00 0.00 0.00 0.7.50 20.00 7.50 2.50 2.50	Hex Ilex  AI  P  Ha  2¼- 3-in.  Rou
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in.	12 to
.c.	2 10 3
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LINING-OUT STOCK Liners grown one year in outside beds. Fer 100
4 to 6 ins. 5 8.00 6 to 8 ins. 15.00 8 to 12 ins. 15.00 8 to 12 ins. 12.65 Il 2 to 16 ins. 12.65 Ilex crenata convexa, 4 to 6 ins. 12.65 Ilex crenata convexa, 6 to 8 ins. 12.65 Iardenia Mystery, 8 to 12 ins. 10.06 Iardenia Mystery, 12 to 18 ins. 12.65 Iardenia radicans, 6 to 8 ins. 7.56 Iardenia radicans, 6 to 8 ins. 7.50 Iardenia radicans, 8 to 12 ins. 10.00 WELCH BROS, NURSERY Willimer, Ala.
HEAVY POTTED LINERS 100 Serberis Julianae, 2½-in, pots

Hex cornuta Fem	ina, 2%-in. pots 17.
Hex cornuta Bur	fordi, 21/4-in. pots 15.
Ilex crenata conv	exa, 21/4-in. pots 17.1
Hex crenata Hell	eri, 2%-in. pots 25.
Ilex crenata Repa	indens, 24-in. pots 17.
Ilex crenata rotur	difolia, 24-in. pots 15.
Immediate de	livery, Cash with order
ALCOVA NURS	ERIES, COVINGTON, GA.
2 1/4 -in. pots, T., 6 3-in. pots, TT., 8 PYRACANTHA 3-in. pots, TT., 6 Free packi	m selected fruiting plants
Route 3.	OCK GARDENS, Jamestown, N.

EUONYMUS ALATUS SEEDLINGS.

1½ to 2½ ft., \$15.00 per 100. Samples mailed on request.

BLUE RIDGE NURSERY,
R. D. 3,
HARTISDURS, PA.

NEW DWARF RED BARBERRY
CRIMSON PYGMY.

rom 24-in. pots, \$25.00 per 100, \$225.00
1000.
Ask for general lining-out stock list.
THE COTTAGE GARDENS
Lansing 15, Mich.

Lansing 19, mich.

FLORETUM FAMOUS ROOT LINERS.

utside grown in rigorous Kansas weather.

rgreens, blooming shrubs, vines, perens, new modern shade and ornamental

s, etc. Ask for new '55 catalog.

PRAIRIE SOUTHWEST FLORETUM,

Fall River, Kan.

Fall Rive.,

BUDDLEIAS.

BUDDLEIAS.

Dubonnet, wine-red, Babcock, white.

ong 2 ¼-in., \$12.00 per 100, \$110.00 per 1000.

Free packing, Cash with order.

BARCOCK GARDENS,

Jamestown, N. Y.

LINING-OUT STOCK.
See our Classified ad in this issue
under Evergreens.
T. G. OWEN & SON, INC.,
Columbus, Miss.

LINING-OUT STOCK.
e our diaplay ad elsewhere in this issue.
BROOKFIELD GARDENS,
Rt. 48, Delaware, N. J.

Start Your Offer Now in the American Nurseryman And Watch Sales Climb.

### MAGNOLIAS

MAGNOLIAS, HEAVY 2-YEA	R,
CUTTING-GROWN.	
12 to 18 ins. 18	to 24 ins.
Alexandrina\$0.35	\$0.40
Liliflora	.40
Nigra	.35
Pink Alba Superba35	.40
Rustica Rubra35	.40
Small-flowering Soul35	.40
Soulangeana	.40
Grace McDade40	.50
SEMMES NURSERIES	
Semmes, Ala.	

ORIENTAL MAGNOLIAS agnolia rustica rubra, Magnolia Soulange-and Magnolia Soulangeana nigra. All ar, nice, heavy liners that are sure clease. Can be shipped any time prior lebruary 15.

																p	er	10	6
8	to	12	ins.,	2-yr.	liners		×									-	\$25	.0	0
12	to	18	ins.,	2-уг.	liners	8						*				*	30	0.0	0
18	to	24	ins	2-yr.	liners								. ,				3.5	.0	0
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				Wh	olesale	- 6	1	n	lv										

If you don't find it listed here Try a Want ad in the next issue of the American Nurseryman.

### **PEONIES**

GRAFTED TREE PEONIES. ATHA NURSERY, WEST LIBERTY, O.

AN

100

8.00 0.00 2.50 7.50 0.00 2.50 0.00 2.50 7.50

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PEONIES.
Quantities
available
3 to 2 to
5-eye 3-eye
Baroness Schroeder
Bunker Hill
Clairette 20
Duchess of Portland 70 13
Edulis Superba
Felix Crousse
Festiva Maxima
Georgiana Shaylor 40
Karl Rosefield
Lady Alexandra Duff 92 8:
L'Etincelante
Longfellow
Mme. de Verneville
Mons, Jules Elie
Reine Hortense 69
Samuel Hughes
Sarah Bernhardt 40 45
Solange 6 40
Venus
THE ENTIRE LOT ONLY:
3 to 5-eye, 25c; 2 to 3-eye, 18c. Cut from
young block.
HILLENMEYER NURSERIES,
Lexington, Ky.

#### PHLOX

PHLOX SUBULATA (Creeping Phlox)
Admiration, dainty pink with white eye.
Alba, pure white flowers.
Astro, deep orchid-rose.
Blue Hill, showy pale blue.
Butterfly, white with iliac blush, purple eye.
Crimson Beauty, classy cyclamen-red
Sensation, pure pink with red eye.
Nice liners with roots from field clumps,
\$5.00 per 100, \$45.00 per 1000, prepaid.
250 or more of a variety at 1000 rate.
Properly packed and labeled, and shipped
transportation prepaid. Cash, please.
TANGLEWOOD FARM
Box 336-N
Clinton, S. C.

PHLOX SUBULATA (Creeping Phlox)
Alba, pure white flowers.
Blue Hill, showy pale blue.
Blue Hill, showy pale blue blush, purple eye.
Condesize, started transplants from field rows, \$10.00 per 109, \$50.00 per 1090, prepaid.
250 or more of a variety at 1000 rate.
Properly packed and labeled, and shipped transportation prepaid. Cash, please.
TANGLEWOOD FARM
Eox 336-N
Clinton, S. C.

HARDY PHLOX.
Strong 1-year plants, true to name.
Per 1000 

HARDY PHLOXES.

Write for price list and special prices on large lots. A 14x2! color Phlox poster with orders of \$15.00 or more.

MARVIN HOEZEE, R. 2, LYNDEN, WASH. Growers of hardy Phloxes.

#### RHODODENDRONS

RHODODENDRONS

GRAFTED HYBRID RHODODENDONS.
2000 2-year, bushy liners, excellent roots;
1-year, bedded and 1-year lathhouse-grown.
Reds: Dresselhuys, Rutgers, Bettex, Caractacus, P. Den Ouden, Van Der Hoop, Broeke,
Poleman, E. S. Rand, Sargent.
Pink: Roseum Elegans. White: Album Elegans. Lees Dark Purple, Parsons Gloriosum
and many others.
Bed-run, 10 to 15 ins., \$1.75 each.
100 or more plants, \$1.50 each.
Above shipped in beetle zone only.
3000 1-year, bedded hybrid Rhododendron
grafts: DR. H. C. DRESSELHUYS, excellent
root system, 5 plants for \$4.50.
Xo beetle restriction.
1500 AZALEA MOLLIS, true to color. budded; red, orange, yellow, rose; 10 to 12 ins.
\$1.50 eacest.
WINDY HILL NURSERIES.
Dr. C. R. Shuster, Owner,
Wood St.,
Phone 32744.

Phone 32744.

RHODODENDRON HYBRIDS.

1-year, field-grown grafted plants, imported from Holland in the spring, \$75.00 per 100, \$350.00 per 1000 lot. List of varieties on demand, VERKADE'S NURSERIES, Wayne, N. J.

#### ROSEBUSHES

ROSA MULTIFLORA.
Rooted cuttings for budding.
De-eyed for better root system.
Solvent of the system of the system

2-year field-grown rosebushes for immediate or later shipment. All plants state inspected, dug and shipped fresh from our own fields. Tied in bundles of 10 of a grade and

Girona CLIMBERS

Biaze Primrose Caledonia Pres. Hoover Red Radiance Pink Radiance

Paul's Scarlet
Mrs. P. S. du Pont
Talisman
White American

Beauty
Poinsettia
Yellow Talisman
Golden Charm
Red Talisman
Marechal Niel
Kais. A. Viktoria

Blaze

seids. Tied in bundles of 10 of a grade and variety.

TERMS: Cash, or 25 per cent cash and balance C.O.D. Packing free.

PRICES

Lots of 100 to 500

No. 1 grade, 30c ea.

No. 1 grade, 23c ea.

No. 1 grade, 27c ea.

No. 2 grade, 18c ea.

RED

Red Radiance
Red Radiance
Ami Quinard
Etoile de Hollande
American Beauty
Syracuse
Poinsettia
Better Times
Better Times
Et. G. Hill
Francis Scott Key
Fink

Prancis Scott Key
Fink

Red Radiance
Golden Charm
Soeur Therese
Yellow Talisman
Luxembourg
Lady Hillingdon
Golden Dawn
Mrs. Pierre S. du Pont
TWO-TONE
Betty Uprichard
Talisman E. G. Hill Francis Scott Key PINK Talisman Pres. Hoover Condesa de Sastago Nellie Perkins

PINK Pink Radiance Mrs. Chas. Bell Editor McFarland Shell Radiance Columbia Cynthia Briarcliff

octor
POLYANTHAS and
FLORIBUNDAS ecile Brunner hatillon Chatillon Eblouissant Katharina Zeimet Golden Salmon Red Ripples Red Lafayette

Red Lafaystte
Floradora
WHITE
Frau Karl Druschki
Kais. A. Viktoria
Caledonia
Konigan Luise
White American
Beauty

Beauty

Lindale, Tex.

HIGHEST QUALITY, FIELD-GROWN ROSES.

ROSES.

No better or cleaner stock than Krider Roses, Properly fertilized, well-sprayed and dusted during growing season makes them vigorous and disease-free. Ideal for potting. Order now for immediate or later delivery. Satisfaction guaranteed.

RED

Etoile de Hollande FLORIBUNDAS

Etoile de Hollande Floradora, orange McGredy's Scarlet. Red Ripules red

Floradora, orange Red Ripples, red Etoile de Hollande McGredy's Scarlet Red Radiance Crimson Glory WHITE K. A. Viktoria Koenigin Luise F. K. Druschki PINK Betty Uprichard Editor McFarland Picture Red Ripples, red
Chateau, scarlet
Imp. Lafayette, red
TWO-TONED
Condesa de Sastago
Tallsman
POLYANTHAS
Golden Salmon, salm,
Orleans, pink
Edith Cavell, red
CLIMBING
Blaze, red
Gold Rush, yellow
Amer. Beauty, red

Middlebury, Ind.

W have about 750,000 very nice, upright seedlings, grown under irrigation.

2 to 2 mm. caliper \$10,00 per 1000
3 to 6 mm. caliper \$0,00 per 1000
6 to 12 mm. caliper \$0,00 per 1000
6 to 12 mm. caliper \$0,00 per 1000
6 ded-run, 2 mm. up \$12,50 per 1000
10 per cent off on orders of 10,000 or more.

No packing charge, F.O.B. Vandalia, Ill.

MESTEL NURSERY
ROUTE 2.

Vandalia, Ill.

ROSA MULTIFLORA SEEDLINGS.

We have 590,000 surplus, excellent crop
Rosa multiflora, 2 to 6 mm. Write for prices
stating quantity and size, or special price on
row run, with guarantee of count and size
and ask for samples, or call and inspect.

BROWNELL ROSES,

Little Compton, R. I.

ROSEBUSHES: Good assortment. No. 1 30c; No. 1½, 24c; No. 2, 18c in lots 400 and up. List on request. TATE NURSERY. Rt. 3, Tyler, Tex. Since 1935.

ROSEBUSHES
No BETTER Rosebushes can be had from any source at any price. A trial order with convince the most skeptical. Roses may be shipped now or later.
RED WHITE
Red Talisman Better Times
Red Radiance
Etoile de Hollande
Syracuse
Rouge Mallerin
General WHITE
White American
Beauty
Caledonia
K. A. Viktoria
Konigin Luise
F. K. Druschki
POLYANTHAS
Baby Chateau
Ideal
Golden Salmon
Kirsten Poulsen acuse uge Mallerin enoble Rouge Mallerin Grenoble Poinsettia Ami Quinard Chas. K. Douglas PINK Golden Salmon Kirsten Poulsen Red Lafayette Mrs. R. M. Finch Red Ripples Flora Dora Orange Triumph CLIMBERS PINK
Betty Uprichard
Editor McFarland
Columbia
Pink Radiance
Mrs. Chas. Bell Doctor Picture Blaze Cecile Brunner Talisman Rouge Mallerin 

ROSES, ALL 2-YR., NO. 1. Patented Hybrid Teas. Each 10-20 | Company | Comp

30,000 ROSEBUSHES.

28 of the better standard varieties.
All plants state inspected
and still in the field.
Hybrid Teas, Floribundas and Climbers. Special price for the entire field.
D. R. BULLARD, GROWER,
1119 East Elm, Phone 2-9643.

#### ROSA MULTIFLORA JAPONICA.

Strong 8-in., well-rooted, 1-year, de-eyed cuttings, suitable for budding. A vigorous mildew resistant strain. \$30.00 per 1000. Sample on request,

MELVIN E. WYANT, Rose Specialist, Inc., Mentor, O.

ROSEBUSHES ROSEBUSHES
Grown, graded and packed to perfection.
Complete assortment of varieties.
WRITE TODAY FOR PRICES AND
BOOK YOUR REQUIREMENTS NOW!
ROSEMONT NURSERIES
D. L. Thompson, Owner
Lept. A.
Tyler, Tex.

ROSES.

94 Our own field-grown, budded on thorny multiflora seedlings. Fine root system for potting or retail sales, Old standard and new patented varieties, Hybrid Teas and Climbers. Ask for our list. We also have potted Roses for spring sales. We grow 100,000. DANEGGER'S HI-WAY NURSERY, INC., Box 336, Milford, Del. ROOTED CUTTINGS. TRANSPLANTED IN FLATS. NORTHERN OHIO GROWN ROSES
Naturally Matured—Conscientiously Handled
If you have not as yet received it, ask for
our list of Hybrid Teas, Floribundas and
Climbers in the newest and best varieties.
For 30 years a consistently reliable source
of finer roses.

GERARD K. KLYN, Inc.
Mentor, O. 2000 1-year seoSa RUGOSA. 100 1000 1500 6 to 8 ins. 85.50 \$45.00 1500 6 to 12 ins. 12.50 110.00 5000 12 to 15 ins. 12.50 110.00 5000 12 to 15 ins. 35.00 300.00 5000 15 to 18 ins. T. 35.00 300.00 BOULEVARD NURSERIES Newport. R. I. Newport. R. I.

ARP-GROWN ROSEBUSHES, beautifully packaged for display or direct-to-garden mail order and bare-root for landscape Service to nurseries for 33 years. Write for price list. ARP NURSERY CO. WHOLESALE GROWER, Box 867-A, Tyler, Tex. ROSEBUSHES Good roses will not be in oversupply.

Early bookings are indicated. List now ready. Send for your copy today.

MARTIN'S ROSE NURSERY
P. O. Box 155 Tel.: 713 Arp, Tex. ROSE STOCK ENGLISH MANETTI.
6 to 9 mm., for grafting or budding,
\$36.00 per 1000. F.O.B. Nursery, England.
PARMENTIER'S ROSES
Bayport, L. I., N. Y. American Holly berries, \$1.00 per lb.; 10 lbs. or more, 90c per lb.
DECIDUOUS HOLLY (ILEX DECIDUA).
A beautiful ornamental plant with brilliant red berries all winter; also a wonderful understock for all varieties of American Holly, due to its massive root system which greatly increases growth and insures greater livability in transplanting. Berries, \$1.25 per lb. Orders less than \$5.00, please add 50c for postage. All other orders prepaid.
WARREN AND SON NURSERY Rt. 11, Box 512
Oklahoma City, Okla. SEEDS. Ligustrum amurense, \$1.00 per lb. Ligustrum lucidum (Glossy Privet), \$2.00 er lb. Ligustrum lucnum (2008)
per lb.
Ligustrum japonicum, \$2.25 per lb.
Nandina domestica, red berries, \$2.25 per lb.
Photinia serrulata, \$3.50 per lb.
Cherry-Laurel, \$1.00 per lb.
Hall's Japanese Honeysuckie, \$5.00 per lb.
Fyracantha yunnanensis, large red berries,
\$1.50 per lb.
J. H. ELLIS,

J. H. ELLIS, La Grange, Ga.

Richmond, Va.

SURPLUS PERENNIAL SEEDS

1954 crop. tested high germination. Per
14 oz. Alyasum saxatile citrinum 4.2.
4 oz. Aquilegia Crimson Star 4.3.
6 oz. Aquilegia Mrs. Scott Elliott's 2.
8 oz. Delphnium English Hyb. mixed 1.
KINGWOOD NURSERIES, MENTOR, O.

NANDINA SEED (UNCLEANED). \$2.50 per lb.

Watch Your Results From American Nurseryman Classified Ads. SHRUBS AND TREES

ORDER YOUR
ROOTED CUTTINGS
NOW
FOR SPRING DELIVERY
Cuttings taken from clean, healthy, vigorous plants and rooted by us in our own greenhouses. We are accepting orders for delivery April and May, 1955.
Ilex convexs.
Ilex convexs.
Ilex roindifolia Juniperus Andorra
Ilex microphylla Ilex Hicksi
Ilex Glass
Ilex glasbra
Ilex glasbra
Ilex crenata
(upright)
Ilex and Taxus sempervirens
Ilex and Taxus sempervirens
Ilex and Taxus - \$85.00 per 1000
Junipers - \$80.00 per 1000
Shipped according to your directions. Shipping charges added to order. Packing free.
CONNER & AMOS, INC.
1139 Dutch Rook
Charleston, W. Va.

R. F. D. 2. LAIRD'S NURSERIES.

269 Springdale.

Azalea Hino Crimson,	
	Per 100 Per 1000
Azalea Hino Crimson, 4 to 6 ins	5 ins. 15.00 125.00 s 15.00 125.00
ROOTED CU	TTINGS. 125.00
I-YR. BEI Buxus sempervirens, 4 to Euonymus patens, 5 to 8 Ilex Bullata, 4 to 6 ins. Ilex crenata, 5 to 8 ins. Ilex rotundifolia, 5 to 8 Juniper, Andorra, 4 to 8 Juniperus hibernica, 5 to Juniperus hibernica, 5 to Juniperus stricta, 4 to 6 Pachysandras Retinospora plumosa aur 6 to 8 ins.	DDED. 6 ins. 10.00 90.00
Euonymus patens, 5 to 8	ins. 10.00 10.00 85.00
Ilex crenata, 5 to 8 ins.	10.00 90.00
Juniper, Andorra, 4 to 8	ins 12.00 100.00 ins 12.00
Juniper Pfitzer 4 to 5	8 ins. 10.00 ns 12.00 100.00
Juniperus stricta, 4 to 6	ins 12.00 100.00
Retinospora plumosa aur	4.00 35.00 ea,
6 to 8 ins	10.00 90.00
Retinospora plumosa, 6 to 8 ins	ns 10.00 \$0.00
Taxus cuspidata, 4 to 6 i	ns 10.00 90.00
Taxus Hatheldi, 4 to 6 ins	ns 10.00 90.00 10.00 90.00
Taxus rependens, 4 to 6 Thuia globosa, 5 to 8 in	ins 12.00 s 10.00 90.00
Thuja nigra, 4 to 6 ins	8 ins. 12.00 90.00
TRANSPL	ANTS.
Picea excelsa, 6 to 8 ins.	8 ins. 10.00 90.00 6.00 50.00
Picea excelsa, 10 to 15 i	ns 15.00 140.00
4 to 6 ins	7.00 60.00
Tsuga canadensis, 5 to 8	8 ins. 6.00 50.00 ins 10.00 95.00
Tsuga canadensis, 8 to 10 Tsuga canadensis, 10 to 1	ins. 15.00 140.00 12 ins. 20.00 190.00
Acer palmatum 6 to 8 i	DLINGS. ns 4.00 35.00
Acer palmatum, 6 to 8 i Cornus florida, 6 to 15 i Cornus Kousa, 6 to 12 in Tayus capitata	
Taxus capitata (transpla	8 4.00 5.00 40.00
	nted) 6.00 50.00 DLINGS.
Berberis atropurpurea, 4 to 6 ins  Douglas Fir, 3 to 5 ins  Ilex crenata, 4 to 6 ins 3-YEAR SEE  Balsam Fir, 3 to 5 ins  Picea excelsa, 4 to 5 ins	5.00 40.00
Douglas Fir, 3 to 5 ins	4.00 35.00
3-YEAR SEE	4.00 35.00 DLINGS.
Balsam Fir, 3 to 5 ins Picea excelsa, 4 to 6 ins Picea pungens glauca,	4.00 35.00 3.50 25.00
Picea pungens glauca,	4.00 35.00
ricea pungens glauca, 4 to 6 ins	6 ins. 3.50 25.00
Pinus Strobus, 4 to 6 ins. Pinus sylvestris, 4 to 6 in	3.50 25.00 ns 3.50 25.00
Pinus, white Mugo, 3-in	4 ing. 5.00 40.00
Thuja orientalis, 8 to 12	ins 3.50 30.00
Tsuga caroliniana, 3 to	4 ins. 6.00 50.00
Pinus Strobus, 4 to 6 ins. Pinus sylvestris, 4 to 6 in Pinus, white Mugo, 3-in. Thuja ocidentalis, 3 to 12 Tsuga canadensis, 3 to 4 Tsuga caroliniana, 3 to 2-YEAR TRAN Azalea Hinodegiri Azalea mollis POTTED GRAFTS FC Cornus florida alba plena	SPLANTS\$30.00
Azalea Hino Crimson	
POTTED GRAFTS FO	OR SPRING 1955.
Cornus florida alba plena	\$ 50.00
Cornus norida pendula .	50.00
Cornus florida rubra	
Cornus florida rubra Cornus florida rubra Pros Picea pungens Moerheim	sser 65.00 i 100.00
Cornus florida alba plena Cornus florida pendula Cornus florida rubra Cornus florida rubra Pros Picea pungens Moerheim Picea pungens Kosterian Pinus Cembra	i
Cornus florida rubra Cornus florida rubra Pros Picea pungens Moerheim Picea pungens Kosteriam Pinus Cembra Pinus parviflora glauca	88er
Cornus florida rubra Proc Cornus florida rubra Proc Picea pungens Moerheim Picea pungens Kosterian: Pinus Cembra Pinus Parviflora glauca Pinus Strobus nana Pinus Strobus pendula Pinus Strobus pendula	886F. 65.00 i 100.00 a 100.00 . 50.00 . 50.00 . 50.00 . 50.00
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula . Tsuga canadensis Sargen VAN DINE N	50.00 50.00 50.00 ti 50.00 URSERY.
Pinus parvifiora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE N Berden Ave.,	50,00 50,00 50,00 ti 50,00 URSERY, Preakness, N. J.
Pinus parvifiora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE N Berden Ave., ORNAMENTALS, HEA	50.00 50.00 50.00 ti 50.00 URSERY, Preakness, N. J.
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE N Berden Ave., ORNAMENTALS, HEA	50.00 50.00 50.00 ti 50.00 ti 50.00 URSERY, Preakness, N. J. VY BED-GROWN 5 6 to 8 to 12 5 to 18
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE N Berden Ave., ORNAMENTALS, HEA	50.00 50.00 50.00 ti 50.00 ti 50.00 URSERY, Preakness, N. J. VY BED-GROWN 5 6 to 8 to 12 5 to 18
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE N Berden Ave., ORNAMENTALS, HEA	50.00 50.00 50.00 ti 50.00 ti 50.00 URSERY, Preakness, N. J. VY BED-GROWN 5 6 to 8 to 12 5 to 18
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.,  ORNAMENTALS, HEA 4tt In Buxus Harlandi . 40.1 Buxus japonica	50.00 50.00 50.00 URSERY, Preakness, N. J. VY BED-GROWN 6 6 to 8 \$ to 12 a, ins. ins. 0 0 12½ 15 \$0.12½ 0 11½
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.,  ORNAMENTALS, HEA 4 to In Buxus Harlandi 10.1 Buxus japonica 1.1 Cleyera Japonica 1.1 Nandina, ST 1.1	50.00 50.00 50.00 11 50.00 URSERY, Preakness, N. J. VY BED-GROWN 56 6 to 8 to 12 a. ins. ins. 0 \$0.12\frac{1}{2}\$ 0 112\frac{1}{2}\$ 0 \$8 to 12 12 to 18 is. ins. ins.
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.,  ORNAMENTALS, HEA 4tt in Buxus Harlandi 40.1 Buxus japonica 1 Buxus sempervirens 1 Cleyera japonica 1 Nandina, ST 1 Elaeagnus Fruitlandi. 40.1	50.00 50.00 50.00 URSERY, Preakness, N. J. VBED-GROWN 6 6 to 8 \$ to 12 8, ins. ins. 0 \$0.12\frac{1}{2}\$ 0 12\frac{1}{2}\$ 0 \$ 8 to 12 12 to 18 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins.
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.,  ORNAMENTALS, HEA 4tt in Buxus Harlandi 40.1 Buxus japonica 1 Buxus sempervirens 1 Cleyera japonica 1 Nandina, ST 1 Elaeagnus Fruitlandi. 40.1	50.00 50.00 50.00 URSERY, Preakness, N. J. VBED-GROWN 6 6 to 8 \$ to 12 8, ins. ins. 0 \$0.12\frac{1}{2}\$ 0 12\frac{1}{2}\$ 0 \$ 8 to 12 12 to 18 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins. 2\frac{1}{2}\$ 18, ins. ins.
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.,  ORNAMENTALS, HEA th Buxus Harlandi . \$0.1 Buxus japonica	50.00 50.00 50.00 10.50.00 URSERY, Preakness, N. J. VY BED-GROWN 56 6 to 8 \$ to 12 a, ins. ins. 0 2½ .15 \$0.12½ 0 12½ .05 8 \$ to 12 12 to 18 18. ins. ins. 2½ \$0.15 2½ .15 \$0.17½ 0 8 \$ to 12 12 to 18 2½ .15 \$0.17½ 0 12½ .15 \$0.17½ 0 12½ .15 \$0.17½ 0 12½ .15 \$0.17½ 0 12½ .15 \$0.17½ 0 12½ .15 \$0.17½
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE Ni Berden Ave.,  ORNAMENTALS, HEA 4tt in Buxus Harlandi . \$0.1 Buxus japonica	50.00 50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 15 50.00 16 50 8 10 12 18 10 12 18 10 12 18 10 18 10 17 18 10 18 10 18 18 10 18 10 18 18 10 18 10 18 18 10 18 1
Pinus parvifora glauca Pinus Strobus nana Pinus Strobus Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi in. Buxus Japonica i. Buxus sempervirens i. Cleyera Japonica i. Elaeagnus Fruitlandi. \$0.1 Elaeagnus pungens i. Elaeagnus pungens i. Feljos globalas i. Feljos globalas i. Fiex Cassine anguntifolia i. Ilex rotundifolia i.	50,00 50,00 50,00 50,00 URSERY, Preakness, N. J. VY BED-GROWN 56 6 to 8 to 12 5, ins. ins. 0 \$0.12\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 12 \$ \$0.15\$ 12\frac{1}{2}\$ 13 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$
Pinus parvifora glauca Pinus Strobus nana Pinus Strobus Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi in. Buxus Japonica i. Buxus sempervirens i. Cleyera Japonica i. Elaeagnus Fruitlandi. \$0.1 Elaeagnus pungens i. Elaeagnus pungens i. Feljos globalas i. Feljos globalas i. Fiex Cassine anguntifolia i. Ilex rotundifolia i.	50,00 50,00 50,00 50,00 URSERY, Preakness, N. J. VY BED-GROWN 56 6 to 8 to 12 5, ins. ins. 0 \$0.12\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 12 \$ \$0.15\$ 12\frac{1}{2}\$ 13 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$
Pinus parviflora glauca Pinus Strobus nana Pinus Strobus nana Pinus Strobus nana Pinus Strobus pendula Tsuga canadensis Sargen VAN DINE NI Berden Ave.  ORNAMENTALS, HEA 4 to In Buxus Harlandi 40.1 Buxus japonica 1 Cleyera Japonica 1 Nandina, ST 5 It Elaeagnus Fuitlandi 40.1 Elaeagnus pungens 1 Eurya japonica 1 Feijoa Sellowiana 1 Feijoa Sellowiana 1 Fiowering Cherry 1 Ilex Cassine angustifolia 1 Jasminum, primulinum 1 Cherry-Laurel, ST 1 English Laurel 1 English Laurel 1	50,00 50,00 50,00 50,00 URSERY, Preakness, N. J. VY BED-GROWN 56 6 to 8 to 12 5, ins. ins. 0 \$0.12\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 11 \$ \$0.17\frac{1}{2}\$ 12\frac{1}{2}\$ 12 \$ \$0.15\$ 12\frac{1}{2}\$ 13 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$ 15 \$ \$0.17\frac{1}{2}\$ 2\frac{1}{2}\$
Pinus parviflora glauca Pinus Strobus nana Pinus Pinus Pinus Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi Pinus	50.00 50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 15 50.00 16 50.00 16 50.00 16 50.00 17
Pinus parviflora glauca Pinus Strobus nana Pinus Pinus Pinus Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi Pinus	50.00 50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 15 50.00 16 50.00 16 50.00 16 50.00 17
Pinus parviflora glauca Pinus Strobus nana Pinus Pinus Pinus Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi Pinus	50.00 50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 15 50.00 16 50.00 16 50.00 16 50.00 17
Pinus parviflora glauca Pinus Strobus nand Pinus Strobus pendula Tauga canadensis Sarge Berden Ave.  ORNAMENTALS, HEA  4 to Buxus Harlandi in Buxus Harlandi in Buxus Harlandi in Buxus Japonica in Cleyera Japonica in Liguera japonica in Elaeagnus Futitlandi. 40.1 Elaeagnus pungens in Eurya Japonica in Felioa Sellowiana in Lex rotundifolia in Jasminum, primulinum in Leguish Laurel in Ligustrum ciliatum var	50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 16 50.00 16 50.00 17 50.00 17 50.00 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.17 50
Pinus parviflora glauca Pinus Strobus nand Pinus Strobus pendula Tauga canadensis Sarge Berden Ave.  ORNAMENTALS, HEA  4 to Buxus Harlandi in Buxus Harlandi in Buxus Harlandi in Buxus Japonica in Cleyera Japonica in Liguera japonica in Elaeagnus Futitlandi. 40.1 Elaeagnus pungens in Eurya Japonica in Felioa Sellowiana in Lex rotundifolia in Jasminum, primulinum in Leguish Laurel in Ligustrum ciliatum var	50.00 50.00 11 50.00 12 50.00 13 50.00 14 50.00 15 50.00 15 50.00 16 50.00 16 50.00 17 50.00 17 50.00 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.12 50 18 50.17 50
Pinus parviflora glauca Pinus Strobus nana. Pinus Strobus nana. Pinus Strobus pendula Tauga canadensis Sarge  Berden Ave.  ORNAMENTALS, HEA  4 to Buxus Harlandi in Buxus Harlandi in Buxus Japonica in Buxus paponica in Cleyera Japonica in Elaeagnus Fruitlandi, \$0.1 Elaeagnus Fruitlandi, \$0.1 Elaeagnus Fruitlandi, \$0.1 Elaeagnus pungens in Eurya Japonica in Feljoa Sellowiana in Feljoa Eliaeagnus pungens in Lex contundifolia in Jasminum, primulinum in Cherry-Laurel, ST in Ligustrum ciliatum var in Ligustrum ferctum in Ligustrum ferctum in Ligustrum ferctum in Ligustrum in Fer	50.00 50.00
Pinus parviflora glauca Pinus Strobus nana. Pinus Strobus nana. Pinus Strobus pendula Tauga canadensis Sarge  Berden Ave.  ORNAMENTALS, HEA  4 to Buxus Harlandi in Buxus Harlandi in Buxus Japonica in Buxus paponica in Cleyera Japonica in Elaeagnus Fruitlandi, \$0.1 Elaeagnus Fruitlandi, \$0.1 Elaeagnus Fruitlandi, \$0.1 Elaeagnus pungens in Eurya Japonica in Feljoa Sellowiana in Feljoa Eliaeagnus pungens in Lex contundifolia in Jasminum, primulinum in Cherry-Laurel, ST in Ligustrum ciliatum var in Ligustrum ferctum in Ligustrum ferctum in Ligustrum ferctum in Ligustrum in Fer	50.00 50.00
Pinus parvifora glauca Pinus Strobus nana Pinus Strobus Nargen  Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi In Buxus Harlandi In Buxus Japonica In Buxus sempervirens I. Cleyera Japonica In Fleyera Japonica In Elaeagnus Pruitlandi. 50.1 Elaeagnus Pungens In Elaeagnus Pungens In Finyering Cherry Ilex Cassine Anguntifolia In Ilex rotundifolia In Jasminum Primulinum In Ligustrum Glautum  var. In Ligustrum Freetum In Photinia glabra In Photinia glabra In Photinia glabra In Retinospora ericoides In Magnolia fuscata In Ilex cornuta Burfordi POTS	50,00 50,00
Pinus parvifora glauca Pinus Strobus nana Pinus Strobus Nargen  Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi In Buxus Harlandi In Buxus Japonica In Buxus sempervirens I. Cleyera Japonica In Fleyera Japonica In Elaeagnus Pruitlandi. 50.1 Elaeagnus Pungens In Elaeagnus Pungens In Finyering Cherry Ilex Cassine Anguntifolia In Ilex rotundifolia In Jasminum Primulinum In Ligustrum Glautum  var. In Ligustrum Freetum In Photinia glabra In Photinia glabra In Photinia glabra In Retinospora ericoides In Magnolia fuscata In Ilex cornuta Burfordi POTS	50,00 50,00
Pinus parvifora glauca Pinus Strobus nana Pinus Strobus Nargen  Berden Ave.  ORNAMENTALS, HEA 4 to Buxus Harlandi In Buxus Harlandi In Buxus Japonica In Buxus sempervirens I. Cleyera Japonica In Fleyera Japonica In Elaeagnus Pruitlandi. 50.1 Elaeagnus Pungens In Elaeagnus Pungens In Finyering Cherry Ilex Cassine Anguntifolia In Ilex rotundifolia In Jasminum Primulinum In Ligustrum Glautum  var. In Ligustrum Freetum In Photinia glabra In Photinia glabra In Photinia glabra In Retinospora ericoides In Magnolia fuscata In Ilex cornuta Burfordi POTS	50,00 50,00
Pinus parvifora glauca Pinus Strobus naa Pinus Strobus pendula Pinus	50.00 50.00 50.00 10.50.00 11.50.00 11.50.00 12.

Aroles mollis 2-ve T heavy	00
sheared, bushy; 12 to 15 ins	
3-yr., 10 to 12 ins	00
2-yr., lining-out stock 16	00
2-yr., 6 to 8 ins 20	00
2-yr., 8 to 10 ins., bushy 25	00
2-yr., 10 to 12 ins	00
sheared, bushy, 6 to 8 ins 20	00
2-yr., 8 to 10 ins 30	00
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2-vr. T. 8 to 10 ins	0.0
Euonymus vegetus, 2-yr., T., lining-out 10	00
8 to 12 ins 20	00
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man, Rhum Von Hortenstein, Michel Bu	oh.
ner, Hugo de Vries, Ludwig Spaeth, Souv.	de-
Ludwig Spaeth, Pres. Grevy, Charles	w
Hugo Koster, Mme. Lemoine, Charles Joly	A,
10-in un 1-vr hude branched \$20	.00
10-in. up, 1-yr., buds, branched\$20 1 to 2-ft., 1-yr., buds, branched 30	.00
12 to 15 ins., 2-yr. buds, bushy 40	99
15 to 18 ing 2-ve hude hughy	00
15 to 18 ins., 2-yr. buds, bushy 55 18 to 24 ins., 2-yr. buds, bushy 70	.00
2 to 2 ft 9-vr hade hughy of	.00
2 to 3 ft., 2-yr. buds, bushy 85 Ligustrum Amur River, 5 canes up, 18 to 24 ins	.00
Ingustrum Amur River, o canes up,	00
2 to 3 ft	.00
3 to 4 ft	.00
Ligustrum ovalifolium, heavy, 3 ft 15	.00
Berberis Thunbergi atropurpurea,	.00
2-yr. transplants 10	00
During compositions 0 vs. toppenings 10	.00
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1-yr. transplants	
Rhododendron hybrids, seedlings,	.50
1-yr. transplants 36	-
Ligustrum ovalifolium, 1-yr. transplants	
Taxus Hicksi, 1-yr. transplants 15	.50
Towns quentifate 1 we transplants 15	.00
Taxus cuspidata, 1-yr. transplants 15	.00
Ilex opaca, 1-yr. transplants 35	.00
Terms: Cash with order earns free par	- M
ing, or one fourth cash with order, balan	ice
before shipping or C.O.D.	
LITTLE MOUNTAIN VIEW NURSERY	
R.D. 1, Rt. 84, Mentor,	O.
	-
FLOWERING CRAB APPLES	
Crimson Brilliant (patent No. 939): 4 to	3 8
ft., 2-year trees, \$3.50 each; 3 for \$9.	78:

FLOWERING CRAB APPLES
Crimson Brilliant (patent No. 939): 4 to 5
ft.. 2-year trees, \$3.50 each; 3 for \$9.75;
\$35.00 per dox.
1-year budded: Aldenham, atrosanguinea,
Eleyl, fioribunda, Hopa, micromalus, purpurea, Scheideckeri, toringoldes. 3 to 4 ft.,
80c; 4 to 5 ft., \$1.00; 5 to 6 ft., \$1.25. Whips
25 per cent less.
1-year budded: Arnold, Dolgo, floribunda,
hupehensis, Parkman, Spec. alba plena, Zumi
calocarpa. 2 to 3 ft., 70c; 3 to 4 ft., 90c;
4 to 5 ft., \$1.20. Whips 25 per cent less.
Sargent: 2 to 3 ft., 90c; 18 to 24-in. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
50c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
60c; 2 to 3-ft. whips, 75c; 3 to 4-ft. whips,
60c; 2 to 3-ft., \$1.00; 3 to 4-ft., \$1.35;
4 to 5 ft., \$1.65; 5 to 6 ft., \$1.90. Whips 25
6 pe cent less.
1-year root grafts, all whips: Almey, Dorothea,
6 per Riversi, Spec, alba plena, Van
5 to 6 ft., \$1.10.

THUNDER CLOUD PURPLE-LEAVED
FLUM: Tree form, 3 to 4 ft., 56c; 4 to 5 ft., 96c;
5 to 6 ft., \$1.10.

THUNDER CLOUD PURPLE-LEAVED
FLUM: Tree form, 3 to 4 ft., 56c; 4 to 5 ft., 90c;
6 to 6 ft., \$1.10.

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Box 88

Acer palmatum, 1-yr., 3 to 5 ins. 1-yr., 3 to 5 ins. 3 to 12 ins. 3 to 12 ins. 4 to 12 ins. 5 to 12 ins. 5 to 12 ins. 5 to 24 ins. 12 to 18 ins. 12 to 18 ins. 13 to 24 ins. 14 to 24 ins. 15 to 24 ins. 16 to 24 ins. 17 to 18 ins. 18 to 24 ins. 18 to 24 ins. 19 to 24 ins. 10 to 19 to		
Acer palmatum, 1-yr., 3 to 5 ins. 1-yr., 3 to 5 ins. 3 to 12 ins. 3 to 12 ins. 4 to 12 ins. 5 to 12 ins. 5 to 12 ins. 5 to 24 ins. 12 to 18 ins. 12 to 18 ins. 13 to 24 ins. 14 to 24 ins. 15 to 24 ins. 16 to 24 ins. 17 to 18 ins. 18 to 24 ins. 18 to 24 ins. 19 to 24 ins. 10 to 19 to		
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1-yr. 3 to 5 ins.	00	1000
Juniperus virginiana, 2-yr. 6 to 12 ins. 3 Juniperus virginiana, 8 to 12 ins. graded understocks		
2-yr. 6 to 12 ins. 2-yr. 6 to 12 ins. graded understocks Ligustrum Regelianum, S., 12 to 18 ins. 10 Ligustrum Regelianum, S., 18 to 24 ins. 18 to 24 ins. 18 to 24 ins. 19 Los 10	.00 1	50.00
Juniperus virginians, 8 to 12 ins, graded understocks 10 Ligustrum Regelianum, S 12 to 18 ins 10 Ligustrum Regelianum, S 12 to 18 ins 10 Ligustrum Regelianum, S 18 to 24 ins 12 Austrian Pine 12 2-yr., run of beds 3 2-yr., 3 to 6 ins., graded 3 3-yr., 6 to 12 ins. graded 6 Scotch Pine, 2-yr., run of beds 3 2-yr., 4 to 8 ins., graded 3 3-yr., 6 to 12 ins. graded 6 Colorado Spruce, 2-yr., 1½ to 3 ins., graded 4 Norway Spruce, 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 2 3-yr., 4 to 8 ins., graded 3 3-yr., 6 to 12 ins., graded 4 Norway Spruce, 2 3-yr., 4 to 8 ins., graded 3 3-yr., run of beds 2 3-yr., 10 of beds 4		
graded understocks 10 Ligustrum Regelianum, S., 12 to 18 ins. 10 Ligustrum Regelianum, S., 18 to 24 ins. 12 Austrian Pine. 2-yr., run of beds 3 2-yr., 3 to 6 ins., graded 6 Scotch Pine, 2-yr., tun of beds 3 2-yr., 4 to 8 ins., graded 3 2-yr., 4 to 8 ins., graded 3 2-yr., 4 to 8 ins., graded 3 2-yr., 10 12 ins., graded 3 2-yr., 10 12 ins., graded 4 Norway Spruce, 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 2 3-yr., 4 to 8 ins., graded 3	.00	50.00
Ligustrum Regelianum, S. 12 to 18 ins. 13 to 24 ins. 18 to 24 ins. 18 to 24 ins. 19 to 24 ins. 2-yr., run of beds. 2-yr., 3 to 6 ins., graded. 3 3-yr., 6 to 12 ins. graded. 5 cotch Pine, 2-yr., run of beds. 3 2-yr., 4 to 8 ins., graded. 3 3-yr., 6 to 12 ins. graded. 3 3-yr., 6 to 12 ins. graded. 5 2-yr., 14 to 8 ins., graded. 6 Colorado Spruce. 2-yr., 14 to 8 ins., graded. 4 Norway Spruce. 2-yr., 14 to 8 ins., graded. 2 3-yr., 4 to 8 ins., graded. 3 3-yr., 10 no f beds. 2 3-yr., 10 of beds. 4		
12 to 18 ins. 10 Ligustrum Regelianum, S., 18 to 24 ins. 12 Austrian Pine. 2-yr., run of beds 3 2-yr., 3 to 6 ins., graded 3 3-yr., 6 to 12 ins., graded 6 Sootch Pine. 2-yr., run of beds 3 2-yr., 4 to 8 ins., graded 5 2-yr., 4 to 8 ins., graded 5 2-yr., 1½ to 3 ins., graded 7 2-yr., 1½ to 3 ins., graded 8 Norway Spruce. 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	.00	75.00
Ligustrum Regelianum. S  18 to 24 ins. 12  Austrian Pine. 3  2-yr., 7 to 6 ins., graded 3  3-yr., 6 to 12 ins., graded 6  Scotch Pine, 2-yr., 1 to 6 ins., graded 3  2-yr., 4 to 8 ins., graded 3  3-yr., 6 to 12 ins., graded 6  Colorado Spruce. 2  2-yr., 1½ to 3 ins., graded 4  Norway Spruce. 2  2-yr., 4 to 8 ins., graded 4  3  3-yr., 6 to 12 ins., graded 4  2-yr., 1½ to 3 ins., graded 4  Norway Spruce. 2  2-yr., 4 to 8 ins., graded 3  3-yr., run of beds 4		
18 to 24 ins. 12 Austrian Pine. 2-yr., run of beds 3 2-yr., 3 to 6 ins., graded 3 3-yr., 6 to 12 ins., graded 6 Scotch Pine. 2-yr., run of beds 3 2-yr., 6 to 12 ins., graded 6 3-yr., 6 to 12 ins., graded 6 2-yr., 10 to 8 ins., graded 4 Norway Spruce. 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., 7 un of beds 4	.00	60.00
Austrian Pine. 3 2-yr., 7 un of beds . 3 2-yr., 3 to 6 ins., graded . 3 3-yr., 6 to 12 ins., graded . 6 Scotch Pine, 2-yr., run of beds		
2-yr., run of beds 2-yr., 3 to 6 ins., graded 3 2-yr., 6 to 12 ins., graded 6 Scotch Pine, 2-yr., run of beds 3 2-yr., tun of beds 3 2-yr., to 10 ins., graded 6 Colorado Spruce, 2-yr., 1½ to 3 ins., graded 4 Norway Spruce, 2-yr., 1½ to 3 ins., graded 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 2 3-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	.00	80.00
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3-yr., 6 to 12 ins., graded 6 Scotch Pine, 2-yr., run of beds	.00	20.00
Scotch Pine, 2-yr., run of beds	.50	25.00
2-yr., run of beds 3 2-yr., 4 to 8 ins., graded 3 3-yr. 6 to 12 ins., graded 6 Colorado Spruce. 2-yr., 1½ to 3 ins., graded 4 Norway Spruce, 2 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	.00	35.00
2-yr., 4 to 8 ins. graded. 3 3-yr. 6 to 12 ins. graded 6 Colorado Spruce. 2-yr., 1½ to 3 ins. graded 4 Norway Spruce. 2-yr., run of beds 2 2-yr., 4 to 8 ins. graded 3 3-yr., run of beds 4		
3-yr. 6 to 12 ins., graded 6 Colorado Spruce. 2-yr., 1½ to 3 ins., graded 4 Norway Spruce. 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	.00	20.00
Colorado Spruce, 2-yr., 1½ to 3 ins., graded 4 Norway Spruce, 2-yr., run of beds	50	25.00
2-yr., 1½ to 3 ins., graded 4 Norway Spruce, 2-yr., run of beds 2 2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	.00	35.00
Norway Spruce, 2-yr., run of beds		
2-yr., run of beds	.00	25.00
2-yr., 4 to 8 ins., graded 3 3-yr., run of beds 4	**	15.00
3-yr., run of beds 4	.50	20.00
	.50	25.00
3-yr., o to 12 ins., graded o	50	30.00
	00	90.00
Taxus capitata, 2-yr., 3 to 6 ins. 10		30.00
A complete catalog on reques	t.	
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\$70.00 55.00 10.00 20.00 25.00 35.00

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FEBRUARY 15, 1955	
SHRUBS AND TREES. 100 1 Abelia grandiflora, 6 to 8 ins. 2 7.50 2 6 5 to 12 ins. 10.00 12 to 18 ins. 20.00 17 18 to 24 ins. 35.00 30 2 to 3 ft., B&B . 75.00 70 Nandinas, 15 to 15 ins. B&B . 75.00 18 to 24 ins., B&B . 125.00 24 to 30 ins., B&B . 125.00 30 to 36 ins., B&B . 150.00 Juniper, Andorra, 6 to 8 ins., field grown 10.00	000 50.0 80.0 75.0 00.0
8 to 12 ins., field-grown 12.00 11 18 to 24 ins., B&B100.00 .	0.0
Section   Sect	0.0
12 to 15 ins 8.00 6 Roses, standards, No. 1	0.0
No. 172 25.00 20 50 varieties patented Roses Prices request. CASH, PLEASE. BLUE SPRING NURSERY. Rt. 1, Box 704. Huntsville. Robert L. Bradford.	Ala
We offer the following surplus fine poliners, spring 1955. TERMS: 2 per cent discount for cash vorder, plus FREE PACKING, Usual tenet 30 days. Cost of packing extra. No C. All stock offered is subject to prior as 25 or more at the 100 rate; 300 or more the 1000 rate.	vith ms D.D e.
Each, Eac Per 100 Per 1	h,
500 Juniperus squamata Meyeri, 2-yr., 3-in. pots\$0.30 1000 Juniperus squamata Meyeri,	0.25
1000 Juniperus squamata Meyeri. 2½-in. pots20 1000 Juniperus Hetzi glauca,	.18
2½-in. pots	.17
2½-in. pots	.17
2½-in. pots	.20
2½-1h. pots 20 400 Juniperus excelsa stricta, 2½-in. pots 20 500 Juniperus Pfitzeriana, 2½-in. pots 22 1000 Euonymus patens LL, 8x10-in., 2½-in. pots 18 500 Euonymus radicans (Sarcoxie), 2½-in. pots 20	.15
1500 Buxus sempervirens, 2½-in. pots	.15
300 Hex crenata convexa, 21/4-in, pots	.15
	.15
2½-in. pots	
Siloam Springs, Ark. KOREAN BARBERRY	_
An aristocrat of shrubs as specimen a for its yellow flowers and orange fruits	
Heavy 3-yr., field-grown, 30 to 36 ins\$6 Priced to sell, 36 to 42 ins CORNUS MASCULA (Cornelian-Cherry 30 to 36 ins	.45 .55
Heavy, 3-yr. plants, 3 to 4 ft.  DEUTZIA LEMOINEI COMPACTA Heavy, 3-yr. plants, 18 to 24 ins  HYPERICUM KALMIANUM	.60
(Pot-O'-Gold) Hardy, bushy, compact, colorful. One the finest low specimen shrubs. Compact, 2-yr, plants, 15 to 18 ins KOLKWITZIA AMABILIS Heavy 3-yr, plants, 30 to 36 ins 36 to 42 ins	of
KOLKWITZIA AMABILIS Heavy 3-yr. plants, 30 to 36 ins	.50
No. 1 vines	.40
SCARFF'S NURSERY, New Carlisle, O	
VIBURNUM CARLESI This is the first time since the beginn of the war that we have been able to of a supply of Viburnum Carlesi seedlings. these years we have not been able to hany seed and still cannot, but can of these seedlings because we have our o seed by this time. We offer the following spring, 1955:  Strong, 2-yr, seedlings Per 100 Per 10 4 to 6 ins. 20.00 175 8 to 12 ins. 30.00 250 Transplants, branched, mail-order size, 12 Its ins., \$75.00 per 100.  C. HOOGENDOORN Newport, R.	fer All uy fer wn for
4 to 6 ins. \$15.00 \$125 6 to 8 ins. 20.00 175 8 to 12 ins. 30.00 250 Transplants, branched, mail-order size, 12 I8 ins., \$75.00 per 100.	.00 .00 to
NIIDORDY OROGIC	
Pfitzer's Juniper, 1-year, 6 to 12 ins\$0, 2-year, 8 to 15 ins\$0 Euonymus patens, 7 to 5 ins\$0 Euonymus patens, 3 to 5 ins	12 18 02 03

FRENCH HYBRID LILACS. All on OWN ROOTS; no grafts. Vigorous, true to name, top quality; shou make real specimen plants. Small surplu beyond our present retail needs, availab for spring shipment.
make real specimen plants. Small surplu beyond our present retail needs, availab for spring shipment.
for spring shipment.  50 Congo, rich red-purple; 8 to 12 ins\$0.50 Congo, 12 to 18 ins  20 Congo, 12 to 18 ins  10 Lucle Baltet, shell-pink; 12 to 18 ins  10 Marengo, bright mauve-lilac;  8 to 12 ins  15 Mme. F. Morel, rose-violet,  8 to 12 ins  F.O.B. nursery Cash with order. No pacling charge. No orders for less than 5 of kind.  UPTON NURSERY CO.,
15 Mme. F. Morel, rose-violet,
F.O.B. nursery, Cash with order. No packing charge. No orders for less than 5 of kind.
UPTON NURSERY CO., Lilac Specialists, 4838 Spokane, Detroit 4, Mici
RED BARRERRY SEEDLINGS
EXCELLENT STRAIN. 6 to 9 ins., 2-yr. seedlings, \$40.00 per 100 9 to 12 ins., 2-yr. seedlings, \$60.00 per 100 12 to 18 ins., 2-yr. seedlings, \$100.00 per 100 12 to 18 ins., 2-yr. seedlings, \$100.00 per 100 SILVER-MAPLE, NURSERY-GROWN. 200 6 to 8 ft., \$100.00 per 100. 100 8 to 10 ft., \$125.00 per 100. CORNUS FLORIDA, heavy, well-branched 400 3 to 4 ft., B&B, \$2.50 each. 65 4 to 5 ft., B&B, \$2.50 each. AZALEA MOLLIS, heavy, very well-budded 12 to 15 ins., B&B, \$1.75 each. 15 to 18 ins., B&B, \$1.75 each. 18 to 24 ins., B&B, \$2.00 each. DAPHNE CNEORUM. 50 12 to 15 ins., B&B, \$1.20 each. COOK'S NURSERIES, P. O. Box 266. COTONEASTERS AND BUDDLEIAS
12 to 15 ins., B&B, \$1.35 each. 15 to 18 ins., B&B, \$1.75 each. 18 to 24 ins., B&B, \$2.00 each.
56 12 to 15 ins., B&B, \$1.20 each. COOK'S NURSERIES,
P. O. Box 266, Geneva, Cotoneasters and Buddle Flas
Excellent finished landscape material. Each, per 10
Cotoneaster divaricata, 3-yr., B&B 2 to 3 ft. \$1.7 3 to 4 ft. 2.0 4 to 4½ ft. 2.5 Cotoneaster Zabelli, 3-yr., B&B.2 to 3 ft. 1.5 Cotoneaster divaricata, 2-yr., L.O.S. 18 to 34 ins. 375 Buddleias (Summer Lilac), well branched,
1-year. Charming, pink; 2 to 3 ft
PINK-FLOWERING DOGWOOD
6 to 12 ins., B.R
12 to 18 ins., B.R., 2-yr., br
CHINESE ELM Per 100
2 to 4 ft.     \$10.0       4 to 6 ft.     20.0       6 to 8 ft.     40.0       8 to 10 ft.     75.0       10 to 12 ft.     100.0
WASHAM NURSERY Sweetwater, Tex.
For \$3.50
you can offer that surplus in a

FRENCH HYBRID LILACS.

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

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you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by February 11.

### American Nurseryman

343 S. Dearborn St. CHICAGO 4, ILL.

PAPER BIRCH (Betula papyrifer Per 10 1 3 to 4 ft	a) Per 100
8 to 4 ft	\$35.00
4 to 5 ft. 6.50 5 to 6 ft. 7.00 WHITE BIRCH (Betula pendula	65.00
WHITE BIRCH (Betula pendula 3 to 4 ft	\$35.00
4 to 5 ft 6.50	60.00
WHITE BIRCH SEEDLINGS	65.00
Per 100 Pe	r 1000
6 to 9 ins	35.00
THE CO. LE STEEL STREET, STREE	45.00
18 to 24 ins	
Portland 20, Ore.	
LINING-OUT STOCK.	
Buxus sempervirens, I	Each Per 100
Iley latifolis 4-in not TT	5.0
Ilex opaca, 4-in, pot, TT	.50
Taxus brevifolia, 4-in, pot, TT	.50
Taxus cuspidata, 4-in, pot, TT	.50
Taxus Hatfieldi, 4-in. pot, TT	.50
Pin Oak, S., 1-yr	.08
Buxus sempervirens, 4-in. pot. TT. 1 lex latifolia, 4-in. pot, TT. 1 lex opaca, 4-in. pot, TT. 1 lex opaca, 4-in. pot, TT. 1 Pyracantha coccinea, 4-in. pot, TT. 1 Taxus brevifolia, 4-in. pot, TT. 1 Taxus densiformis, 4-in. pot, TT. 1 Taxus densiformis, 4-in. pot, TT. 1 Taxus Hatfieldi, 4-in. pot, TT. 1 Pin Oak, S., 1-yr. 1 Washington Hawthorn, 2 - yr., S., 9 to 12 ins. 1 Washington Hawthorn, 2 Washington Hawthorn,	.20
Washington Hawthorn, 2-yr., S., 12 to 15 ins	.2216
HOULIHAN NURSERY CO., Creve Coeur, Mo.	
NURSERY STOCK. P	er 100
Lombardy Poplar, 12 to 24 ins	\$ 4.00
900 3 to 4 ft	8.50
700 4 to 5 ft	12.00
AMUR RIVER PRIVET LINERS.	1000
1 to 2 canes, small	25.00
Amur River Privet seedlings,	150.00
Pfitzer Juniper, 18 to 24 ins \$2.25	each.
Pfitzer Juniper, 24 to 30 ins\$3.00 Biota aurea nana, 15 to 21 ins \$1.75	each,
Lombardy Poplar, 12 to 24 ins. 900 2 to 8 ft. 900 3 to 4 ft. 700 4 to 5 ft. 200 5 to 6 ft. AMUR RIVER PRIVET LINERS. 1 to 2 canes, small. Row-run, 1 to 3 canes, 6 to 9 ins. Amur River Privet seedlings, 15,000 2 to 4 ft., very bushy. Pfitzer Juniper, 18 to 24 ins. 92,25 Pfitzer Juniper, 18 to 30 ins. \$3.00 Biota aurea nana, 15 to 21 ins. \$1.75 PAUL'S NURSERY R. D. 3. Phone: \$2161 Shell	hw O
RED MAPLES	
RED MAPLES JAPANESE MAPLE SEEDLINGS 100 PER CENT RED Well-hardened, branched transplant Each E 3-yr., XXX, 10 to 12 ins., SOLD OUT. 2-yr., XX, 8 to 10 ins.,, 50.48 ± 2-yr., XX, 10 to 15 ins., 50.48	
Well-hardened, branched transplant	tm.
Each E	ach 0 rete
3-yr., XXX, 10 to 12 ins., SOLD OUT.	- 144
2-yr., XX, 10 to 15 ins	.55
Extra nice liners ready for open	field
A 20 per cent deposit will reserve your	order.
Rt. 130 Riverton,	N. J.
Specializing in maple seedlings.	11/ 41
250 JUNIPERUS HETZI, heavy, 2 to 2 500 Taxus cuspidata, 15 to 18 ins. 2500 Taxus cuspidata, rooted cuttings, h	79 11.
2500 Taxus cuspidata, rooted cuttings, he 2500 Taxus Browni, rooted cuttings, he	eavy.
50 Birch, gray; 21/2 to 4-in. caliper.	
15 Birch, gray; mulitple 1% to 3-in. per.	cali-
15 Birch, white; 3 to 5-in. caliper.	
300 American Arborvitae, 3 to 4 ft.	
2000 Azalea mollis, T. SHANER'S NURSERY,	
per.  15 Birch, white; 2 to 5-in. caliper.  15 Juniperus glauca, 7 to 10 ft.  2000 American Arborvitae, 3 to 4 ft.  2000 Azalea mollis, T.  SHANER'S NURSERY,  Leechburg Rd., Rt. 56.  New Kensington, Pa.	
New Kensington, Pa.  EVERGREENS, B&B.  2000 Pyramidal Arborvitae, 3 to 4 ft  1200 Andorra Juniper, 18 to 24 ina  900 American Arborvitae, 2 to 3 ft  2000 Woodward Globe A. V 15 to 18ina  900 WoodD, WHITE FLOWERING  900 Dogwood, 2 to 3 ft., B&B  145 Dogwood, 3 to 4 ft., B&B  290 Dogwood, 5 to 5 ft., B&B  190 Dogwood, 5 to 6 ft., B&B	Each
2000 Pyramidal Arborvitae, 3 to 4 ft	\$2.95
1200 Andorra Juniper, 18 to 24 ins	2.00
300 American Arborvitae, 3 to 4 ft	3.25
DOGWOOD, WHITE FLOWERING	2.00
900 Dogwood, 2 to 3 ft., B&B	2.25
345 Dogwood, 4 to 5 ft., B&B	2.75
Properly sheared, choice material. F	lease
order early. Come and see us by appoints	ment.
DOGWOODS.	
Cornu florida rubra (pink-flowering Pe	r 100
Cornu florida rubra (pink-flowering Pe Dogwood), 2 to 3 ft., 1-yr	25.00
6 to 12 ins., 1-yr	70.00
All of above Dogwoods budded on to	rans-
planted seedlings and grown under irrigate or the common seedlings and grown under irrigate or the common seedlings and the common seedlings to 3 ft. B.R. transp. seedlings  BYERS NURSERY CO.,	AF CO
2 to 3 ft., B.R., transp. seedlings	65.00
BYERS NURSERY CO., Chase, Ala.	
TREE SEEDLINGS. 100	1000
Sugar Maple, 2 to 3 ft	

#### SHRUBS and TREES-Continued

KOLKWITZIA AND OTHER SHRUI'S.
KOLKWITZIA AND OTHER SHRUI'S.
KOLKWITZIA, heavy, 2 to 3 ft., \$40.00 per 100; 3 to 4 ft., \$60.00 per 100.
Althaeas, white varieties. 3 to 4 ft., \$25.00 per 100.
Cydonias, Deutzias, Forsythias, Spiraeas, etc., all young, but heavy.
All shrubs freshly dug, no storage stock.
Send for complete list of Azaleas, Evergreens, shrubs, trees. Quality stock at reasonable prices.

THE TANKARD NURSERIES,
Exmore, Va.

QUALITY STOCK.	
Per 100	Per 1000
Cherry-Laurel, 6 to 12 ins\$2.50	\$20.00
18 to 24 ins 7.00	60.00
Yaupon Holly, 6 to 12 ins 5.00	40.00
12 to 18 ins 8.00	60.00
American Holly, 3 to 6 ins 5.00	45.00
Live Oak, 12 to 18 ins 5.00	40.00
2 to 3 ft	****
Magnolia grand., 4 to 8 ins 7.00	60.00
Nandinas, trans., 4 to 8 ins 6.00	50.00
L. H. BUTTER NURSERY,	
Box 205, Forest Hill, La.	

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North Platte, Neb.
SURPLUS OF THESE TOP-QUALITY LINES
Bargain prices to move a quantity. Al
from 2½-in. pots. Per 100
2-yr. Burford Holly, heavy, 6 to 8
ins, and better\$12.50
2-yr. Blue Spire Arborvitae,
12 to 15 ins 18.00
2-yr. Von Ehron Juniper, 12 to 15 ins. 18.00
Less than 300 total order, add 2c per plant
BRADSHAW NURSERY.
League City, Tex.

LIST NOW AVAILABLE
Write for our new price list on shade trees
shrubbery and evergreens, Good-quality stock
at prices you can afford to pay. For example: Compact plants, B&B.

Irish Jur	iper, 2	to	3	ft.								Each . \$1.25
Pfitzer Ju	uniper,	15	to	18	ins.				*	*		. 1.50
Nandina,												. 1.00
	ROL					CF	3	7				
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2000 EUONYMUS ALATUS, 8 to 10 ins.
Sturdy, branched plants, \$20.00 per 100.
700 Deutzia gracilis, 8 to 12 ins.
200 Philadelphus Lemoinel, 12 to 18 ins.
200 Philadelphus argentine, 12 to 18 ins.
150 Philadelphus Enchantment, 12 to 18 ins.
225 Philadelphus Enchantment, 12 to 18 ins.
400 Philadelphus virginalis, 12 to 18 ins.
400 Spirace Anthony Waterer, 6 to 9 ins.
Above 1-year trads ints, 55.00 per 100.
JOHN BOS TURSERY
Clyde, O.

### CHINESE ELM.

Seedlings and trees up to 3-in. caliper.

Good trees and attractive prices. Write.

OLSON'S NURSERY, Huron, S. D.

300 WHITE ASH, LANDSCAPE SIZE.
(FRAXINUS AMERICANA.) SPECIMENS.
2 to 2½-in. caliper
Limited quantity of larger trees. Minimum order 10, packing at cost.
TERRASCADE INC

612 Piccadilly St.,	Charleston,	W.	Va.
Rhododendrons, cata	whiense, 10 to	18	ins.,
\$1.00 to \$2.25. Carolin	ianum, 12 ins.	to	216
ft., \$2.00 to \$5.00. Ma	ximum, 10 to	18	ins.,
\$1.00 to \$1.85.			
Leucothoe Catesbael \$2.25. 4 to 8 ins., \$50.0	, 8 to 24 ins,	73	c to
Pieris floribundo 4		00	NA.CO MI

Pieris, noribunda, 4 to 8 ins., \$50.00 per 100; japonica, 4 to 8 ins., \$50.00 per 100. Azalea mucronulatum, 4 to 8 ins., 100, \$50.00. Louis A. Hindla, Bohemia, L. I., N. Y.

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Maple.	2 to	3 f	t										22.50
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Dogwo	od.	8 to	12	in	St.								25.00
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sample.

CENTRAL LOUISIANA NURSERY,
P. O. Box 118,
Forest Hill, La.

#### CHINESE ELM Transplants, branched,

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We are closing out all our Hemlocks from 6 ins, to 6 ft. Finished and semi-finished; staked and sheared, single stocks, good. Also Rhododendrons, Kalmia latifolia, Arborvitae, Hetz Juniper, Azaleas, Colorado Blue Spruce and many others. Everything goes. First come, first served.

Highland Gardens, H. 3, Franklin, Pa.

1500 Ligustrum lucidium, 200 Elaeagnus Fruitlandi, 2 to 8 ft., \$1.60; 18 to 24 ins., \$1.35, 100 Ilex vomitoria femina (Yaupon), 18 to 24 ins., \$1.40. All B&B, heavy, sheared field stock, 150 Mimosa, 8 to 10 ft., \$1.00. 50 White Crape-Myrtle, 6 to 8 ft., br., \$1.00. Phone 2-4145. Copeland Nursery, Beaufort, N. C.

HARDY LIVE OAK (Quercus Virginiana). Native in small area, Western Okla, Grown at Noble 20 years, Shines in drought; stood 12 below without a twig injured. Moves the Live Oak zone a lot northward. 1-year, field-grown seedlings, \$15.00 per 100. NOBLE NURSERY, NOBLE, OKLA.

LIGUSTRUM LUCIDUM COMPACTUM.
(Wax-leaved Ligustrum.)
Per 100 Per 1000
Well-rooted cuttings .....\$ 3.00 \$25.00
12 to 14 ins., heavy, bed-grown 15.00
COTTAGE HILL NURSERY.
Rt. 4, Box 130.
Mobile, Ala.

DOUBLE PINK JAPANESE FLOWERING CHERRIES (Kwanzan)

Strong 1-yr, grafts, 12 to 18 ins. . . . . \$50.00 Strong 1-yr, grafts, 18 to 24 ins. . . . . 75.00 C. HOOGENDOORN Newport, R. I.

SHRUBS AND TREES.
See our Classified ad in this issue under Evergreens.
T. G. OWEN & SON, INC., Columbus, Miss.

CALIFORNIA PRIVET.
Fine well branched stock, 2 to 3 ft., 10c;
10 4 ft., 12c. Ready any time.
DANEGGER'S HI-WAY NURSERY, INC.,
Milford, Del. Box 336.

WHITE DOGWOOD, B&B.
Straight, heavy tops, 3 to 4 ft., \$2.50; 4 to 5 ft., \$3.00. Fine stock for the eastern trade. DANEGGER'S HI-WAY NURSERY, INC., BOX 336,

NANDINA DOMESTICA SEEDLINGS 6 to 8 ins., \$8.00 per 100, \$70.00 per 1000. PINKSTON NURSERIES Parrott, Ga.

SEE OUR AD UNDER LINING-OUT STOCK.

NAUGHER NURSERY

Chase, Ala.

### VEGETABLE ROOTS

VICTORIA RHUBARB ROOTS

½ to %-in., \$17.50 per 100.

½ to 1-in., \$25.00 per 1000.

No charge for boxing. Can ship anyl
ASHCRAFT'S NURSERY,
Copemish, Mich.

| Victoria Red Rhubarb, | \$17.50 \$150.00 |
| No. 1 divs. | \$17.50 \$150.00 |
| An excellent commercial red strain. |
| Linnaeus Rhubarb, 2-year roots. |
5/8 to 1-in. cal.	\$6.50 \$50.00
1½ to 1½-in. cal.	\$8.50 \$50.00
1½ to 2-in. cal.	10.00 \$90.00
2-in. up cal.	13.50 \$125.00
Paradise Asparagus, 2-year, 3.00 \$21.50	
Heavy 3-year clumps	6.00 \$45.00
New Calif. "500" 2-year	3.50 \$25.00
Lain in storage for prompt shipment	
SCARFFS NURSERY, New Carlisle, O.	

#### ASPARAGUS ROOTS

Per 1000 Mary Washington, 2-year plants.
1,000 to 5,000 plants. \$17,00
5,000 to 10,000 plants 16.00
10,000 plants and over. 15.00
Approximate weight per 1000 plants
packed for shipment, 90 lbs. No packing
charges for cash with order. Satisfaction patters for cash was charges for cash guaranteed.
PRITCHARD NURSERIES Otta

Ottawa, Kan.

ASPARAGUS AND RHUBARB ROOTS.
Asparagus Washington, strong, 2-year, well-graded. March digging. \$3.00 per 100, \$18.00 per 100.
Rhubarb Victoria, a very good red; strong, heavy stems, grown 1-year from divisions. 2-in. crown and larger.
50 lbs. per 100 plants, \$6.00 per 50, \$10.00 per 100, \$90.00 per 1000. Samples.
ROUDEBUSH GARDENS, 4331 Needmore Rd., Daylon 4, 0.

CHIPMAN'S CANADA RED RHUBARR

No. 1 divisions, by the 100 or 1000. Write for prices.

CHAPMAN'S BERRY FARM East Leroy, Mich. Phone Athens PA 9-7779

### VINES

CLEMATIS VINES.

2-in. pots Each, per 10 per Encest Markham, petunia red. \$0.50

Duchess of Edinburgh, double \$50

Ramona, blue \$50

Montana rubens, 3-in. pots \$35

Cash with order, please.

FOUR STAR NURSERY,

8215 238th St., S.W., Edmonds, W

HONEYSUCKLES.
Lonicera japonica Halliana, extra-heavy
No. 1, 2 and 4-yr., 18 to 24-in, field plants, 2
and 4 leads, \$40.00 per 1000; lighter grade,
\$39.00 per 1000; ample 100, \$5.00. Experienced labor for grading and packing
quantity orders. Immediate shipment. No
order too large.
ROBINSON NURSERY CO.
Greenville, Ga.

CONCORD GRAPE CUTTINGS, expertly cut and tied with wire, 100 to bunch. Cut from clean, well-sprayed vineyard, largest in Oklahoma. \$4.00 per 1000.
IDEAL FRUIT FARM, STILWELL, OKLA.

### WANTED

WANTED-APPLE TREES

Lowest prices on 1000 lots. Red and Yel-low Delicious and Red Rome Beauty, for spring planting, Small true-to-name, well-rooted (if drought-hit short top), Apple trees for lining-out.

THE SPECIALTY NURSERY, Tonasket, Wash.

### SUPPLIES and SERVICES

BIRD FEEDERS

BIRD FEEDERS

Wild bird feeders and houses are big business. If located in a suburban or rural area, you can share BIG profits. Generous discounts, fast turn of the profits of the profits

BIRD FEEDERS OF CALIF. REDWOOD natural finish, 7x8 ins., glass front, hinged roof for easy filling. Order in units: 6 for \$5.70; 12 for \$16.50. We can supply wild bird seed, 25 lbs, for \$4.95, Express collect. Sam. ples, \$2.50, prepaid.

BIRCHWOOD GARDENS

Box 24 Phone 5737 Lowell, Mich.

- Convenient - Cheap! Selling through the Classified Ads of the American Nurseryman.

### CANS

CANS

New 5-gal., 26 gauge cans for container growing quality nursery stock. Sold only in lots of 100 or more. Priced \$28.50 per 100, F.O.B. your truck.

NATIVE AMERICAN HOLLY FARMS, Manheim, Pa.

#### **FERTILIZERS**

SOLUBLE FERTILIZERS PETERS SPECIAL, 20-20-20, general purpose fertilizers SPECIAL, 20-2-7, general property fertilizer.
PETERS SPECIAL, 21-7-7, azalea special, chelated iron, bag. \$20.00 per 100 lbs.
TO.B. Allentown, Pa.
ROBERT B. PETERS CO.
732 N. 7th St.

YMAN

1000 \$150.00

\$ 50.00 65.00 90.00 125.00 22.50 45.00 25.00

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\$10.00

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\$0.45

Wash.

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KLA.

Yel-for well-trees

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Pa.

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### FLATS

	-	
MINNESOTA WHIT	TE CEDAR F	LATS Price
Order by No.	per 100	per 100
No. 1. 14x20x2%	320	\$25.00
No. 2, 14x20x3%	400	29.00
No. 3, 12x16x2%	260	19.00
No. 4, 12x16x3%	275	22.50
No. 5. 14x16x2%	275	21.50
No. 6, 14x16x3%	290	25.50
No. 7 15x22%x2%	380	28.50
No. 8, 15x22%x3%	425	33.00
No. 9, 11 % x22 % x2 %	320	23.00
No. 10, 11 14 x22 14 x3 14	400	26.75
No. 11, 14x16x5	450	30.00
No. 12, 5×11×5	160	16.00
No. 13, 5x16x5	215	18.56
Plant boxes, 5x8 %x2%	45	5.00
All other sizes qu	oted on requ	est.
"One Time" flats of	aspen, 75 pe	er cent of

above prices.

5 per cent discount on orders of 1000 or

ore. The above measurements are inside. Bottoms and sides of cedar flats are %-in, thick; ends are %-in. Plant boxes are thinner. "One Time" flats are 5/16-in. sides and bottoms; ends %-in. All material surfaced on

toms; ends %-10. All masses of the conside.
Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates; Set-up charge, \$1.00, lus %c per end thereafter. Shipped knocked-down in units of 26.
All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

Birmingnam I, Ala.

REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all
clear heart. Size 20x15x3 ins. inside measure,
\$42.00 per 100.

542.00 per 100.

55 pcs. to bundle, 4 ft., \$3.50 per bdl.
55 pcs. to bundle, 5 ft., \$4.50 per bdl.
56 pcs. to bundle, 5 ft., \$4.50 per bdl.
56 pcs. to bundle, 6 ft., \$5.50 per bdl.
56 pcs. to bundle, 6 ft., \$5.50 per bdl.
57 pcs. to 2ah with order, please.
YOHO & HOOKER, Youngstown 2, Ohio

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

### LABELS

DAHLIA OR TREE LABELS	
Priced pe	- 1000
Plain Pa	
3½x% ins., notched (not wired).\$2.50	
3 % x % ins., wired (copper) 3.30	4.10
POT LABELS	
4x% ins. (cartons 1000 each) 2.90	3.40
5x% ins. (cartons 1000 each) 3.10	3.70
6x% ins. (cartons 1000 each) 3.40	4.15
8x% ins. (cartons 500 each) 5.00	6.20
10x% ins. (cartons 500 each) 6.00	7.30
GARDEN STAKES	4.00
Price per carton.	
8x % ins. (cartons 250 each) 1.85	2.15
10x % ins. (cartons 250 each) 2.10	2.40
12x1% ins. (cartons 100 each) 1.40	1.60
EVERMARK PENCILS	
The original label marker. 1 doz.	7-in.
pencils per box, \$1.25.	
Our labels are perfectly white and sn	nooth
The state of the s	

on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOHO & HOOKER

YOHO & HOOKER Youngstown 2, O.	
WOOD LABELS. Finest grade, Smooth White Pine	
POT LABELS. Per	
Plain P	aintec
4x% ins. (1000 per carton)\$2.90	\$3.40
5x% ins. (1000 per carton) 3.10	3.70
6x% ins. (1000 per carton) 3.40	4.15
8x% ins. ( 500 per carton) 5.00	6.20
10x% ins. ( 500 per carton) 6.00	7.36
12x% ins. ( 500 per carton) 7.00	8.60
GARDEN LABELS.	
8x % ins. (250 per carton) 7.30	8.56
10 x % ins. (250 per carton) 8.30	9.60
12x174 ins. (100 per carton)14.00	16.00
TREE LABELS.	
3½x% ins., copper-wired 3.40	4.20
CELLULOID LABELS.	
3x1/2 ins., copper-wired, per box of 100.	. \$1.78
WEATHERPROOF PENCILS.	
Each, 10c; doz., \$1.00; gross, \$10.00	
AMERICAN FLORIST SUPPLY CO	).,
1335 W Randolph St Dont N Chicago	2 111

NEW MODERN WAY TO LABEL ALL NURSERY STOCK.
Self-adhesive; easy to use. No wire to tangle or girdle. Attractive, neat, low cost. Mounted on sheets. You can type, stamp, print or write the labels. Send for samples and prices at once.

MARMAX CO., Nashua, Ia.

### MUSHROOM SUPPLIES

MAGIC MUSHROOM TRAYS.

The easy way to grow mushrooms, everything complete with instructions, Will yield from 2 to 4 months, Expressed, 2 trays \$3.25. 6, \$9.00.

MELLINGER'S, INC., North Lima, O.

#### ORCHID SUPPLIES

OSMUNDA, LIGHT, DARK OR MIXED.
\$11.00 standard bale; 2 bales, \$21.00.
WIRE STAKES, No. 10 gauge galv. wire.
14 ins., \$2.80 per 100, 35c per doz.
18 ins., \$3.60 per 100, 45c per doz.
24 ins., \$4.80 per 100, 60c per doz.
CURSON POT WATERER, with aerator tip. \$7.50.
Curson spray, \$5.00. Curson spray head, \$1.50.

Priced F.O.B. Subject to change without WRIGHTWOOD FLORAL CO., INC., 2407 N. Main St., Houston 9, Tex.

#### SPHAGNUM MOSS

NO. 1 SPHAGNUM MOSS.

Clean, long-fibered, standard bales: freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

### STAKES

-		
	BAMBOO CANE STAI	KES
	Dyed green, pencil thick	kness.
	Packed 2000 per bal	
		1000 Per bale
116 00		
2 ft.		4.59 8.00
2 1/2 ft.		5.50 10.00
3 ft.		7.00 13.00
3 14 ft		8.50 16.00
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	6 ft., per bale of 500, \$	
2	SPLIT BAMBOO, DYED	
	Per 1000 P	er bale (5000)
12 ins.		\$10.00
	3.50	15.00
	4.50	20.00
24 Ins.		25.00
-	F.O.B. CHICAGO	
	intity discounts: 10 bales :	
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	ALEC HENDERSON 1	INC.
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1300 W. Randolph Bt.	Chicago i, in
CYPRESS PLANT	
an Pieces to B	undle.
1x1-in3 ft., pointed	\$3.00 per bundle
1x1-in4 ft., pointed	3.50 per bundle
1x1-in5 ft., pointed	
1x1-in6 ft., pointed	
1x1-in7 ft., pointed	7.00 per bundle
These stakes are made o	f cypress and red
wood, are good, strong str	akes and will give
long service. "A little b	
necessary."	

WE SHIP SAME DAY!

												STAK		
Per	100				ħ	ú	1	te	)	% in.	5/4	to % in.	. %	to 1 in
4	ft.									\$2.88		\$3.44		\$4.24
										3.60		4.30		5.30
										4.32		5.16		6.36
										5.04		6.02		7.42
												6.88		8.48

STAKES, GALVANIZED HARD STEEL. Galvanized Wire. Prices and samples sent upon request. SCHUPP SUPPLY CO., Wilmette, Ill.

### TRADE BOOKS

TRADE BOOKS.

Suggestions for nurserymen and their employees:

NEW DESIGNS FOR SMALL PROPERTIES, by M. E. Bottomley, \$4.00.

GREENHOUSES: THEIR CONSTRUCTION AND EQUIPMENT, by W. J. Wright, \$3.00.

STANDARD CYCLOPEDIA OF HORTICULTURE 3-Volume Set by L. H. Bailey, \$52.00.

AMERICAN NURSERYMAN 342 South Dearborn Chicago 4, Ill.

### TEXAS TURF MEETING

Dedicated to the improvement and maintenance of golf course and other fine turf grasses, the Texas Turf Grass Association held a conference December 13 to 15, at the Texas A. and M. College, College Station. Dr. Ethan C. Holt, agronomist, was general chairman, and 154 registered.

The opening session included a talk on the principles of turf management, by Prof. H. B. Musser, agronomist, Pennsylvania State College, and a discussion of fungus in turf grass, by Dr. William Klomparens, Upjohn Co., Kalamazoo, Mich. Dr. Wayne Huffine, agronomist, Oklahoma A. and M. College, spoke on "Seed and Plant Certification." Factors influencing turf nutrition were discussed by Dr. H. E. Joham, plant physiologist, Texas A. and M.

Tuesday's session was divided into discussion groups on bent grass, park and cemetery grasses and athletic field and play areas. Panels of experts on various turf problems rotated from group to group.

The last day's session was devoted to turf research, with talks by Dr. E. C. Holt and Dr. Marvin Ferguson, United States Golf Association, greens section. Compaction studies of golf green soil mixtures were reviewed by Raymond Kunz, agronomist, Texas A. and M. College.

At the business meeting, the following officers were elected: President, Hughy Johnson, director of field athletics activities, Houston Industrial Schools, Houston; vice-president, Wylie Moore, superintendent of Stevens park golf course, Dallas; research director, Dr. E. C. Holt, agronomist, Texas A. and M. College; executive secretary, Robert L. Frazer, director of campus maintenance and development, East Texas State Teachers College, Commerce, and editor of Turf News of Texas, Albert W. Crain, agronomist, Texas Toro Co., Houston.

J. OSCAR BARRERA, who is with his father in Barrera's Nursery, McAllen, Tex., after two years' service in the army in Japan and Korea, was married December 17 to Christina Chapa, of McAllen.

GEORGE ZIEGLER, landscape extension specialist at the University of Wisconsin, conducted a series of three meetings for nurserymen and their sales personnel in the Racine-Kenosha area, in the county courthouse at Kenosha, Wis., January 13 and 20 and February 9.

### WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.00 per inch, each insertion.

Liners: 35e line; minimum order \$3.50.

### SITUATION WANTED

Experienced landscape material salesman and designer. Student of reputable landscape school, accustomed to high earnings, seeks contact of mutual interests. Fluent talker, well educated, late model car. Address replies to Box 149, care of American Nurseryman.

### SITUATION WANTED

Young, married man receiving certificate in 2-yr. nursery course at Penn State University in January wishes work in nursery propagation department. Served 4 years in army, no future service obligations in sight, Reply to Box 55, Fairview, Pa.

### HELP WANTED

Experienced, middle-aged landscape gardener needed for small nursery in Pennsylvania. Good working conditions. Position open April 1. Write stating experience and salary expected. Address Box 128, care of American Nurseryman.

### HELP WANTED

Experienced yardman wanted for large garden center on Chicago's south side. Knowledge of nursery stock essential. Must be ready to start work by March 15. Good salary; good working conditions. Address Box 141, care of American Nurseryman.

### HELP WANTED

Growing nursery in upstate New York offers full partnership to capable man who will take full charge of landscaping department. Must have experience in landscaping and selling and know plants. No capital required. Unlimited opportunity for right man in prosperous area. Write Box 150, care of American Nurseryman.

### WANTED TO BUY

A small garden center nursery with heeling space plus parking space. Location must be in the east or northern part of United States. Address replies to Box 147, care of American Nurseryman.

### FOR SALE

Farquhar mist sprayer, \$300.00, Friend 20-g.p.m., 300-gal. sprayer, \$300.00, 5-h.p. electric irrigation pump and motor, \$300.00.

\$300.00. CHAS. P. McFARLAND P. O. Box 246 North Aurora, III. Phone: Aurora 8160

HELP WANTED—Good salary and bonus offered experienced landscape designer with ability in executing and supervising small landscape plantings. Established Long Island firm of landscape contractors has exceptional opportunity with sound future for aggressive, capable man able to assume responsibility. For interview, address Box 145, care of American Nurseryman.

WANTED TO BUY—Working partnership in going nursery after June 1, with view to taking over complete business in two years. Can offer now up to \$10,000 as share in husiness. Have wife experienced and capable in bookkeeping. Prefer west coast or southwest location. Send complete details to Box 151, care of American Nurseryman.

### HELP WANTED

LANDSCAPE CREW FOREMAN

Preferably 20 to 35 years old, married and free of armed service obligation. Must have ability and responsibility to direct other men, ability to follow plans and sketches, knowledge of plant materials and plant requirements and enthusiasm for high-grade landscape work. Location is east coast, high-income community. When replying, state age, marital status, armed forces status, experience and education. Give references, earliest date available and enclose recent picture. Address Box 143, care of American Nurseryman.

### HELP WANTED

LANDSCAPE SALESMAN

To join our landscape department. Capable of meeting public. No door-to-door selling; all leads furnished. Must be capable of drawing plans, making estimates and following each job through to final completion. Excellent spot for right man with leading indewest nursery and landscape company. This is a permanent position with top salary. Write qualifications and include picture and photostats or copies of plans you have drawn. Personal interview will be arranged later.

THE SECOR LANDSCAPE CO. 3340 Secor Rd. Toledo 6, O. Phone: LAwndale 2191

### HELP WANTED

LANDSCAPE ARCHITECT

Old, well-established landscape company has opening for landscape architect. Graduate preferred, but general landscape experience will be satisfactory. Must have excellent references. Write giving full experience, education and salary expected. Write Box 148, care of American Nurseryman.

### FOR SALE

Immediately available, good 4x6-ft. cypress hotbed sash, glazed, ready for use. Cash \$3.00 each, F.O.B. point of storage, as is. Also some similar sash which requires minor repairs. \$2.00 each; same terms. Will help load. Located at Muscatine, Ia. Also 250,000 used, but in good condition, spring steel triangular tomato basket clamps.

L. N. KLOPPMAN H. J. HEINZ CO. Pittsburgh, Pa.

#### FOR SALE

The southwest's finest tree mover. All hydraulic. Fast, safe and simple. Capacity 13,000 lbs., 7½-ft. bail. Mounted on 1948 International truck, fiat stake bed for double use. Also Ford tractor back hoe attachment for digging trees and holes. Complete \$3500.00.

HILL'S NURSERY
P. O. Box 43
Victoria, Tex.

### FOR SALE

Well-established landscaping and nursery business, Wheeling, W. Va. Several thousand healthy plants on a 4½-acre tract, including all tools, tool shed and equipment.

ROBERT A. WREN 604 Laconia Bldg. Wheeling, W. Va.

### FOR SALE

Bean Roto-Mist shade tree sprayer. Like new in appearance and operation. The ideal equipment for Dutch elm spraying. Mounted on heavy-duty, factory-made trailer. Equipped with nozzle lights for night spraying. Can be purchased for \$2175.00 cash.

POWER EQUIPMENT SUPPLY 963 Park Place Decatur, Ill.

### FOR SALE

NURSERY AND FLORISTS'
BUSINESS

\$80,000 yearly volume. Three almost new buildings with 7000 sq. ft. of floor space on 80x160-ft. lot. Ten blocks from Minneapolis loop. Two good parking areas. Will sell below cost of buildings. For information, call or write.

E. H. BOLSTER 2729 Hennepin Ave., Minneapolis, Minn. Phone: Locust 3217

### FOR SALE

Greenhouses, second hand. All sizes. Also all parts, glass and pipe for all purposes. We ship anywhere. We are greenhouse wreckers.

SEABOARD GENERAL SUPPLY CO. P. O. Box 55 Hillside, N. J Phone: Waverly 6-0404

### **GREEN'S TRACTOR HOE**



Green's tractor hoe will save you time and money. One man can do the work of many. Fits most makes of tractors. Send for free literature.

HOWARD C. GREEN

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### COVER ILLUSTRATION

Picea Glehni

While Picea glehni, the Sakhalin spruce, was introduced before 1891, it has not been grown extensively in this country, and there has been little opportunity to observe its growth habit or adaptability.

The Sakhalin spruce is described as a handsome, narrow, pyramidal tree, reaching a height of 100 feet or more in its native habitat. The branches are short and slender, with attractive reddish-brown bark. The twigs are densely hairy. The terminal buds show a ring of awl-shaped scales at the base, such as is typical with the black and red spruces.

The needles are somewhat compressed and in cross section are broader than high with twice as many white, stomatic lines above as below. The needles are short, being one-quarter to one-half inch long, and they are dark green in color. Picca glehni is native of Sakhalin and Japan.

From limited observation the Sakhalin spruce appears to have about the same cultural requirements as the Norway spruce, Picea abies. It has been growing satisfactorily in northeastern Ohio. It is listed as being hardy in the most northern parts of the United States. Its use will be as an attractive,

### RESEARCH IN MARKETING

specimen evergreen tree. L. C. C.

Plans are being made for a northeastern regional research project in the marketing of ornamental nursery crops. Eight of 10 colleges represented at a conference in New York city, January 5, plan to participate in the project. A master plan is now being written. The various state projects will be so written as to come within the master proposal. These projects are dependent on additional research funds and will be started after July 1, 1955, if such funds are available.

Little marketing research has been done in the nursery field to date, although the importance of horticultural products justifies consideration of more work in the field.

The group indicated particular interest in such matters as the channels through which nursery sales are made, the extending of the sale period through use of canned and potted stocks, the dependence of sales on landscaping and planting services, effectiveness of different merchandising practices and present and potential consumer demand.

L. A. Dougherty, University of New Hampshire.

# easier with new PARAGON Power Sprayer

Paragon Model 353, illustrated below, the latest addition to the Paragon line, has already won high acclaim as an efficient, low-priced power sprayer. New and entirely different, Model 353 meets the needs of nurserymen, market growers and gardeners for spraying insecticides, weed killers, water base paints, white wash, water repellent solutions and other spray materials. 12-gal. tank. Latest-type gun delivers mist or 25-ft. stream.

Hydraulic-type pump mounted above the solution discharges up to  $1\frac{1}{2}$  gals, a minute. Double-bladed agitator keeps solutions mixed and strainer clean. Rust-protected tank is easy to fill and clean. Moves

easily over rough ground on rubbertired wheels. Four-cycle, ¾-HP gasoline engine.

### The Complete Line

Write for new catalog F201 of all the *Paragon* Power and Hand Sprayers . . . famous for more than a quarter century. Please *name your jobber* when you write. Provide for your equipment needs *now*.



THE CAMPBELL-HAUSFELD COMPANY
503 State Street . Harrison, Ohio

### CAMPBELL-HAUSFELD

### SOIL STERILIZER

A simple, safe sterilizer for use in the bed, bench or potting soil. NO FUSS, NO SOIL INNECTS, NO SOW BUGS, NO SULGS, NO FUNGI. Ethylene dibromide in capsule form. I. package of 290 capsules, \$3.39. I case of 12 packages, \$37.90. Satisfaction guaranteed.

HORTI-PRODUCTS CO.



### **ULLMAN CLEAT**

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.
Northampton, Mass.

### **BEGINNING IN THE NURSERY BUSINESS**

by J. J. Pinney. Complete series of articles. **50c.**American Nurseryman Chicago 4.



For All Nursery Requirements

### GEO B CARPENTER & CO.

401 N. Ogden Avenue, Chicago 22, III.

401 N. Ogden Avence, emicago 12, m

### **BURLAP NURSERY SQUARES**

Cut from used burlap, 16x16 ins. to 40x40 ins. Burlap and Burlap Strips Cotton Net Onion Bag Squares Prices on request.

GENERAL PACKAGE CORP. 229 Wright St. NEWARK S, N. J.



Attractively packaged. onally advertised. Advertising aids.

Write for discounts and free sample.

100 for \$12.25

Retail prices 10 for \$ 1.40 25 for \$ 3.25 re-use.
Anchors prevent accidental dislodgement and frost heaving.

Nationally advertised. Low shipping costs. Eye-catching display box.



Retail priced for high volum

25 for \$1.25



Write today for discounts and sample.

Room 1277, 1 East 57th Street, New York 22, N. Y.

hydrazide and NIX. He found that in one series Alanap gave the best results. In the taxus experiment considerable amounts of purslane were present, but it was readily controlled by a spray of 24 pounds per acre of NIX, which gave quick results, or seven and one-half pounds per acre of Chloro IPC, which was slower but lasted longer. Caution was exercised in applying both of these chemicals so as not to hit the plants' foliage, but some must have drifted. since leaves of Viburnum rhytidophyllum curled.

Mr. Pinney reported on work he had carried on last summer with chemical herbicides in the fields of the Evergreen Nursery Co., Sturgeon Bay, Wis. He cautioned the nurserymen that the environmental conditions of northeastern Wisconsin are quite different from Ohio and effects he realized might not be the same under Ohio conditions.

Application of Crag Herbicide 1 was made on a total of 20 evergreen species at the rate of four pounds per acre per application. A chart was distributed showing the various sizes of trees of a particular species which had been sprayed. These ranged from 2-year seedlings to 9 to 12-inch transplants. Some plots received up to four applications in the summer of 1954, and since each application was four pounds per acre, some plots received a total of 16 pounds during the summer. He went on to say that in no case had he been able to discern any injury to any of the 20 species from applications of Crag Herbicide 1. The species are as follows: White, Scotch, Austrian, Norway, mugho and ponderosa pine; Blue (seed-grown), Norway, white and Black Hills spruce; balsam and concolor fir; Douglas fir; red cedar; American, pyramidal and Woodward globe arborvitae; Pfitzer juniper; spreading and Hicks yews.

In addition to Crag Herbicide 1 he mentioned that several other chemicals were tested on nine species-White, Scotch and Austrian pine; white, blue and Norway spruce; red cedar; American arborvitae and concolor fir. These plants showed no injury after being sprayed with two applications of Crag, two and onehalf pounds, plus Alanap, two and one-half pounds, per acre, or Sessin, four pounds per acre, or Natrin, one pound per acre. He did mention that CMU had been used at one-half pound per acre rates in conjunction with four pounds of Crag with no visible injury, but added a strong word of caution in saying, "The results obtained at the nursery, other than for Crag Herbicide 1, are at



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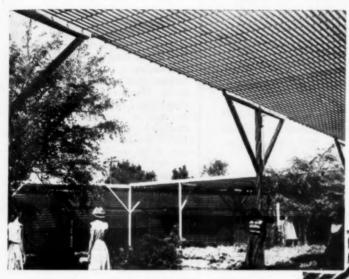
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# If You Need Shade . . . You Need ALUMALATH



For years, millions of feet of ALUMALATH have been in use by nurserymen and greenhouse operators in every part of the country and they highly recommend it.

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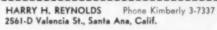
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present still inconclusive, and we wish to withhold final comment pending further investigation, since several of these herbicides are extremely potent chemicals."

Mr. Pinney then described the method of application he used for applying these chemical herbicides. Slides were shown which illustrated the arrangement of the power-takeoff pump, tank, valves and boom on the tractor used for spraying. He briefly described how the sprayer had been calibrated to spray approxi-mately 50 gallons of liquid per acre at 40 pounds' pressure, with the tractor at full throttle in second gear. At this speed, he found, one man could cover one and one-eighth acres per hour, or nine acres per day. The boom used was eight feet long and designed to cover five rows, 12 inches apart, and the adjoining aisles. However, larger equipment could easily be designed if the pump capacity is large enough. He concluded by remarking that chemical herbicides have considerably cut the cost of the weeding operation at the nursery, and he urged other nurserymen to try chemical weed control, but cautioned them to exercise moderation by using small test plots first, and then later expanding their

David Dugan, of Dugan Nurseries, a nurseryman with long experience in the field of chemical weed control, discussed his experiences concerning tolerance and methods of application. He pointed out the fact that even if a chemical did injure a few trees, perhaps it was not so severe as would have been caused by a 16-year-old boy with a hoe under normal weeding practices.

He had over 300 acres of nursery stock under Crag Herbicide 1 control last summer, and of the many different species only two showed injury, Hydrangea P.G. and Boston ivy. He went on to explain that it was an accident that Hydrangea P.G. had been sprayed, since they were being layered, and under these conditions he normally would not have sprayed them. As a result of the spray, the layers did not root. Flowering dogwood was injured by three to four times the normal application, which accidently had been applied, but no injury occurred at the proper concentration. Boston ivy was definitely injured by the spray.

Mr. Dugan explained that he had controlled crab grass with three treatments of six pounds of Crag per acre, and he thought this observation warranted more experimentation in an effort to control the weed.

At this point Dr. Alban returned

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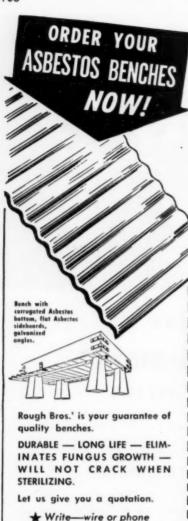
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to conclude the panel discussion by describing four points to keep in mind when designing or buying spray equipment: (1) The speed of the tractor, (2) the spacing of the nozzles, (3) the pressure used and (4) the nozzle openings. He further pointed out that as herbicides become more and more selective, the need for mixing two or more together increases, and that every nurseryman starting on a program of chemical weed control must carefully understand the proper chemicals to use, the tolerance of the plants in the area to be sprayed and the correct method of application.

### Container-Grown Stock

Arthur Lancaster, Coleman Nursery, Inc., Portsmouth, Va., discussed selling of container-grown nursery stock. As an introduction he reminded the nurserymen that, "It's not what a man does not know that gets him into trouble, but rather what he knows that is not so."

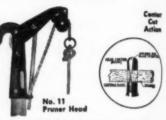
He pointed out that seven years ago the land he used as a nursery was so worn out that it became difficult to grow good nursery stock, and as a result he shifted over to growing plants in metal containers. The advantages of container growing over the conventional method are: (1) More plants can be grown on less acreage. (2) You can control your soil mixture better (he used 50 per cent peat, 25 per cent coarse sand and 25 per cent soil). (3) Since you use less acreage you can afford to irrigate, and thus drought has little affect on the product.

Mr. Lancaster then explained in detail his source of cans and how he prepared them for use. The cans were hauled in by a large truck from a syrup factory in a nearby city. They then entered an assembly line on which the covers were removed; the cans were soaked and washed, and labels were removed; the cans were buffed inside and out, after which three holes were punched near the base in each can by a machine and, finally, they were painted with an asphalt-base paint, dried and stacked. With this method of assembly line production, seven workers can process approximately 7,000 cans per eight hours.

Next Mr. Lancaster explained how they canned the plants. They start most of their own plants in greenhouses and then pot them into 2½-inch pots. In April these plants are repotted into 1-gallon cans with the help of a potting machine. This machine and operators are capable of processing 4,500 potted trees per day.

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The gallon cans can then be set out in beds of 15x150 feet with an 18-inch walk down the center and a 5-foot aisle between the beds. Approximately 3,000 cans fit into one of these areas.

In preparing the plants for the winter, he found by experience that the two most important factors in overwintering of can plants in the Virginia area are plenty of moisture and adequate nutrition through

proper fertilization.

For watering he found that people with physical handicaps were reliable and accurate in performing this vital task. In fertilizing the plants, he stated, accuracy was of the utmost importance, and, therefore, he used a measuring spoon to apply the proper amount of fertilizer to each plant. The fertilizer was applied on a monthly schedule.

Mr. Lancaster emphasized the importance of knowing exactly what it costs to produce a given plant ready for sale. This, he said, is more easily done when assembly line production is utilized, such as he has been doing for seven years.

After producing the stock in cans, it must, of course, be sold to the public. For that purpose a retail salesvard was constructed, covering an acre or more. Several years ago he remarked that competition was becoming keen from truckers who sold off tail gates and through retail department stores. To counteract this, he placed a guarantee on all of his plants from time of purchase until October, which gave the customer protection through the summer at least. The guarantee was issued in the form of a card, which must be returned with the stock. This, of course, brought the customer back to the salesyard and usually he was sold additional stock.

His salesyard and how it operates were shown by slides. First of importance, he remarked, was to have a clean and neat area located near a well-traveled road. Then each plant should be labeled and priced. Self-service and a check stand for those customers who know what they want facilitates both the customer and the nurseryman. All of the benches are raised to allow for easier inspection by the customers. Only a few plants of a kind are on display at a time, since the customer has a hard enough time to choose as it is. The customer is not allowed into the growing area.

In conclusion Mr. Lancaster reminded the nurserymen that people who are happy and contented and can be made to forget their everyday problems will buy more; so he





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has provided them with a clean and neat salesyard where soft semiclassical music can be heard in any area of the garden, in an attempt to condition their minds to buying.

#### Soil Maintenance

Harry L. Cook, manager of re-search and control department of Farm Bureau Cooperative Association, Inc., Columbus, O., who discussed "Systems of Soil Maintenance."

Mr. Cook defined soil as a place to support plants and added that clay and organic matter were the only soil particles which were of value chemically. He went on to tell what he believed to be the factors affecting growth.

1. Temperature - Cool temperatures slow growth. He pointed out that well drained soils warm up faster in spring than poorly drained

2. Water - A good soil should consist of 50 per cent by volume of pore space, and of this one-half should be small pores (capillaries) for water holding and the other onehalf large pores for holding air (noncapillaries). A good soil must have close to this structure, or the plants will either suffer from poor aeration or from lack of water.

3. Light - He felt control of light was not too important commercially.

4. Chemicals of the soil - Mr. Cook pointed out the importance of maintaining a pH near neutral for most crops, and he advocated the use of soil tests for elements such as phosphorous and potassium. He added that he felt that if all elements were brought up to a high level the plant would take care of itself.

In discussing organic matter he stated that it was of value for several reasons. 1. It increased water holding capacity. 2. It allowed better aeration by clumping the small clay particles together to form a popcorn ball structure. 3. It improves the chemical situation by addition of nutrients. 4. It increased the base exchange capacity and buffering capacity of the soil. 5. It is food for the microorganisms of the soil.

Mr. Cook then discussed the possible ways in which organic matter may be obtained, namely by buying it or growing it. He again emphasized the importance of having both organic matter, as well as the proper nutrients, in the proper amounts. He concluded by briefly discussing a few of the elements needed for plant

The remainder of the afternoon was devoted to round-table discussion of three different subjects, prop-

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agation, plant materials and soil programs. All sessions operated simultaneously, and the discussions were very informal.

### Propagation Round Table

The propagation round table was led by Lewis Lipp, Holden Arboretum, Mentor, Ohio, and other members of the group were Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn., and Laddie J. Mitiska, Mitiska Nursery, Amherst, Ohio. Many excellent and thought-provoking questions were discussed

Mr. Bailey was asked briefly to explain his firm's methods of propagation. He stated that for greenhouse progagation he used the Binks system of humidification and plants the cuttings directly into the field after rooting. He is now doing a considerable amount of propagation under mist in a lath house.

Mr. Mitiska gave a rather comprehensive report on how he uses coldframes to propagate ilex and taxus. He discussed how to make the cuttings and grafts, when to take them, how the frames were prepared, how the cuttings were watered and finally, winter protection.

The propagation of evergreen azaleas was discussed at length by Mike Sebian. He emphasized the success he has had is primarily due to the fact that he takes his cuttings at exactly the right time, which is a period of only five to 10 days near the end of July. If the cuttings are given proper treatment he has had them root within 21 days.

#### Plant Materials Round Table

The second round table concerned plant materials and was headed by Dr. John Creech. Other members were William D. Cole, Cole Nursery Co., Painesville, Ohio; Jack R. Siebenthaler, Siebenthaler Co., Dayton, Ohio, and Dr. Henry Skinner, United States National Arboretum, Washington, D. C.

Mr. Siebenthaler pointed out that the more variety of plant material we have available, the better chance we have in dealing with different shapes and sizes in our landscape efforts. We must learn not to go entirely on what the small plant looks like, but rather be able to anticipate what the mature effect is. Slides were shown to illustrate that the effectiveness of a planting should not last just over a short period, but rather over a long period of time.

Mr. Siebenthaler continued with comments on specific plants illustrated by color slides. Aesculus parviflora, he said, gave an excellent flower effect for a tree. Magnolia



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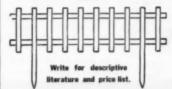
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virginiana was a very dependable plant for use in contemporary landscaping. Cotoneaster apiculata was easy to maintain and gave good seasonal effect. Hydrangea quercifolia gave an excellent fall color. Pyracanthas are especially good to espalier. Mahonias need a good method of propagation by cuttings. Viburnum tomentosum has beautiful red fruits and good flowers. Viburnum burkwoodi has one of the best blooms of any of the viburnums.

Dr. Creech gave a short discussion of the varieties of pyracantha and added comments concerning mahonia and holly.

Mr. Cole discussed several plants and illustrated them by use of slides. He stated that Euonymus vegetus was an upright type with several varieties now being on the market. Rhamnus frangula, columnar form, made a good narrow upright hedge and was easily propagated.

Dr. Skinner remarked that there was a good set of California quince at the National Arboretum at Washington, D. C., and the plants appeared vigorous, but have a habit of suckering and the fruits distract from the ornamental beauty. The arbo-retum is now looking for a nonfruiting variety. He added that cedar of Lebanon (Sargent form) stands very dry conditions, but is seldom grown. Ilex cornuta rotunda is a small mound-shaped plant which should be a leading plant in the future, since it withstands dry and hot conditions well. Sophora japonica is a beautiful tree, but hard to get started. Magnolia acuminata is a rapid-growing tree which does well in cities and is being used to replace the tulip trees that went down in the hurricanes in the Washington, D. C., area.

The next hour was spent in discussion of the answers to the many questions asked by the audience.

### Soils Programs

Soils programs were the subject of a round-table discussion. Moderator of this session was Kenneth W. Reisch, Ohio State University, Other members were Donald J. Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky.; Frank Turner, Berryhill Nursery Co., Springfield, O., and Harry L. Cook.

Mr. Turner suggested that, in side-dressing a nursery crop, the fertilizer should be spread over the entire surface of the soil rather than applied only along the nursery rows. In this way he felt that the over-all fertility of the soil could be kept high, which would result in the nursery crop attaining salable size earlier.

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Mr. Hillenmeyer emphasized that since the development of a root system of a plant depends largely upon the porosity of the soil, it is important to keep the organic content of the soil high.

More of the environmental factors can be controlled in canned plants, particularly the soil mixture and its fertility, according to Mr. Reisch. This, he felt, accounts for the better growth that can be obtained in canned plants as compared with field-grown plants. Mr. Turner pointed out that as long as all the essential nutrients are kept in proportional balance, there is more safety in applying high amounts of fertilizer for the purpose of pushing the growth of the crop.

Dependability of soil tests was discussed, with Mr. Cook reminding the group that most tests are but an indication of the relative amounts of nutrients that might be in the soil. They do not show the actual amounts.

In a discussion on cover crops, Mr. Hillenmeyer reported that K 31 fescue is ideal for use in establishing permanent sod as a cover crop. He recommended that on shallow soils it should be grown for three years and high amounts of nitrogen should be applied yearly.

When turning the cover crop under, Mr. Turner advised that it should be done at a time when the crop is still green. Instead of a permanent sod, he prefers to grow a cover crop that will produce a lush dense growth in one year, such as corn. The corn is sown with a grain drill in August. While still in a green state, it is disked down and plowed under. Nitrogen is applied immediately to aid in its decomposition. To serve as a winter cover, rye is sown after the corn is plowed under. In this way Mr. Turner feels that the corn can be grown one year and the nursery stock replaced the following vear.

### MICHIGAN GROUP BANQUET

The seventh annual banquet of the Saginaw Valley Nurserymen's Association was held recently at the Freeland Township hall, Freeland, Mich. A chicken dinner was enjoyed by members and guests, followed by the introduction of guests by President James Begick, Bay City.

Dick Somalski, chairman of the banquet arrangements, was assisted by Don Rice, Cass River Nurseries, Saginaw; Theodore Laetz, Laetz Hobby Farm, Bay City; Joe Korniski, and James Begick. Mrs. Virginia Rice was in charge of decorations, aided by Mrs. Thelma Laetz.



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### Ohio Short Course

### Landscape Day Talks on Plant Topics

By John L. Rice

The program of landscape gardeners' day, January 18, at the Ohio short course this year was composed of five parts, with as many speakers.

#### Ornamental Plants for Shade

Victor H. Ries, of the department of horticulture and forestry at Ohio State University, discussed the use of those plants that will thrive under shady conditions. Mr. Ries reported that any shaded area can be made into an attractive spot, with an abundance of foliage and bloom, if the proper plant materials are used. So that those in attendance could better visualize the plants, slides were shown along with the talk.

Two of the evergreen ground covers discussed were a Romainian variety of Hedera helix which has the same excellent, but larger, foliage as the species, and Vinca minor, or the common periwinkle. Recommended as nonevergreen ground covers that do well in the shade are Ajuga reptans, convallaria, which is tough and can grow where other plants do not survive, and teucrium, which is not so hardy and may die out in a severe winter.

Blue-eyed Mary, or collinsia torenia, sweet alyssum, calendula, and aster are a few of the annuals that do well in shady locations. Collinsia does best in low, moist places. The seeds should be sown in late August or early September. It blooms at the same time as the tulip. In most cases annuals do not thrive in shade. Those mentioned should succeed when grown in partial shade.

A few of the perennial flowers mentioned that may be used in shady situations are hepatica, Sanguinaria canadensis (bloodroot), mertensia (Virginia bluebell), cypripedium (lady's-slipper) and Japanese anemone. Hepatica is a spring-blooming native plant that thrives in either acid or alkaline, moist soil. It needs some sun in the spring, but will tolerate shade in the summer. Bloodroot easily spreads and makes a good refined ground cover with excellent foliage. The Virginia bluebell is one of the loveliest of the early spring-blooming plants, which serves its best purpose when allowed to become naturalized in a shady place. Japanese anemone is difficult to establish; two good varieties are September Charm and September Spirit. The lady's-slipper is an attractive, wild flower which may be found growing natively in acid soil in a dimly lit woodland or a shaded ravine.

Bulbs to be used in shaded areas include any of the spring-flowering species. Some mentioned were the snowdrop (galanthus), crocus, grape hyacinth (muscari), Siberian squill (Scilla sibirica), early double-flowering tulips and varieties of narcissus.

The majority of woody ornamental plants do not thrive in shaded conditions. Of those that will tolerate shade it must be realized that, in most cases, the deeper the shade, the poorer the flower and fruit of the plant. Euonymus fortunei is useful because of its dark green foliage. Akebia quinate, one of the oldest vines in cultivation in this country, may be used as a hardy vine or ground cover in a shady place. Many varieties of azaleas, viburnums and

magnolias, along with Oxydendrum aboreum (sourwood), with its excellent foliage and fall color, do well in the shade. All of the cotoneasters get along in places where there is not much sun.

#### Turf Grass Studies

Dr. Richard R. Davis, of the department of agronomy at Ohio agricultural experiment station, Wooster, reported on "Turf Grass Studies at the Ohio Experiment Station."

At present, according to Dr. Davis, there has not been enough turf research in Ohio. The experiment station is now engaged in conducting studies on lawn grasses in experimental plots at Wooster.

First discussed was an experiment which has been in progress for two and one-half years. Dr. Davis pointed out that nitrogen is the element most needed by the grasses. With this in mind, fertilizers with varying nitrogen concentrations were applied to

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different experimental Kentucky bluegrass plots. Ammonium sulphate was used as the inorganic source of nitrogen and milorganite as the organic source. The amounts put on varied from three pounds per 1,000 square feet per year (100 pounds per acre per year), down to no nitrogen at all. The time of year when the fertilizer was applied was also varied. On some plots applications were made in the spring, on some in the summer and on others in the fall.

One of the drawbacks, it was learned, is that the use of large amounts of nitrogen may lead to the development of a lot of quack grass. The plot having the highest nitrogen concentration (three pounds per 1,000 square feet per year) had the greatest amount of quack grass. Where the nitrogen was applied at the rate of three pounds per 1,000 square feet per year in the spring. there was much more quack grass present than when the same amount was applied in the fall. The least amount of quack grass was found in the plot with the least amount of added fertilizer. Thus far, the major conclusions concerning the development of quack grass drawn from this experiment are, that one should not use over two pounds per 1,000 square feet per vear of nitrogenous fertilizer on bluegrass sod and that for best results this should be applied in

Numerous types of grasses are on trial at the Wooster station. Vegetative strains of creeping bent grass, such as Old Orchard, Congressional, Pennlu and Arlington, each have adaptation and performance limitations. Old Orchard forms a good summer turf and is used on golf greens and lawns. The use of bent grass, however, in most cases is not encouraged for lawn use because it requires a great deal of care.

The polycross strain known as Pencross, developed at the Pennsylvania agricultural experiment station, is a new seeded creeping bent grass. Designed to improve quality of turf produced by seed, it has no great advantage over the good vegetative strains.

Dr. Davis next covered some of the new grasses that can be used for lawns, fairways or general turf areas. Along with this part of the discussion, slides were shown.

Although slow in getting started, Merion bluegrass is superior to common bluegrass or any other type of Kentucky bluegrass now in use. When clipped to three-quarters inch, common bluegrass becomes sparse, against the good thick mat of Merion. Merion bluegrass also holds its

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color better than common Kentucky bluegrass in the winter.

Merion bluegrass can take a large amount of nitrogen. One hundred pounds per acre of a nitrogenous fertilizer should be applied before sowing the seeds. Each year 60 pounds of this nitrogen source should be added in the spring and 100 pounds in the fall. This heavy rate of nitrogen added to the soil will give the Merion bluegrass a characteristically slow start.

Tall fescues are coarse grasses. They keep their green color well into winter months. When cut to three-quarters inch they do not do so well as when left at two inches. A closely clipped lawn of Merion bluegrass and red fescue will look a little mottled where the fescue tends to die out.

Two other lawn or turf grasses are U-3 Bermuda grass and Meyer's Zoysia. The U-3 Bermuda strain has more tolerance to cold, greater density and better texture than common Bermuda grass. Meyer's Zovsia, although it becomes dormant and brown in the winter, is capable of standing colder conditions and has a finer texture than other strains.

Controlling crabgrass in bluegrass sod was discussed by Dr. Davis. Chemicals, he claimed, may tempo-

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rarily eliminate crabgrass and thereby permit a lawn to get started, but the only real cure is a thick mat of grass. Applications of phenyl butyric acetate at five pints per acre in three treatments over the spring

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may be used to eliminate crabgrass when it is in the small seedling stage. This will not have as much control if applied in August. When the crabgrass plants reach maturity in July and August, potassium cyanate, at the rate of eight pounds per acre, is a good control. Three applications will also be necessary here.

For information on improving lawn soils, seeding the lawn, care of lawns, mowing and control of lawn weeds and other pests, Dr. Davis suggested sending for extension bulletin 271, "Your Lawn," issued by Ohio State University and the Ohio agricultural experiment sta-

### Lighting Things Up

Charles Callura, of the supply division of the McClery & Carpenter Electric Co., Columbus, and his associates, Alan Lee, representative of Lightolier, and Miss Blanch Waggener, of the Columbus Southern Electric Co., disclosed many features and uses of outdoor landscape

Now, more than ever, millions of homeowners are taking greater pride in their homes. "Man wants his home to look like a castle." Night illumination of the landscape not only tends to increase the attractiveness of the home, but also can be functional in giving more time for outdoor leisure

The view from the living room picture window is no longer a wall of blackness after dark, but, with outdoor lighting, can be made into a beautiful natural landscape scene. This balance of exterior with interior lighting will add spaciousness to the room and make one feel in closer contact with the beauties of nature outside.

By illumination of the desired features of the grounds and by leaving others in the dark, a place can look more impressive by night than in the day. Many arrangements of lighting combinations can be developed by the homeowner as he experiments in creating different lighting effects. The foliage and over-all outlines of shrubs and trees can produce outstanding landscape results.

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well in feature positions. A daylight effect can be created at night by complete flooding of the area. In the daytime it may be difficult to stress certain landscape features and tone down others. Light at night may subdue those not wanted and be used to bring out those features needed for the effect that is desired.

Miss Waggener showed a series of colored slides which gave an idea of the value of landscape lighting. By switching from artificial night illumination shots to natural daylight views of the same areas, the various effects created with night lighting could be seen. Some of the slides shown were night views, through a picture window, of a Chinese garden, of a modern half-moon pool, of a rock garden and many other scenes both with night lighting and by natural daylight.

Lights may be concealed under eaves, in tree trunks, rocks or under artificial lily pads, or may themselves be exposed and be a part of the landscape scene. Upright fixtures may be used for low or step plantings and low lights for low blooming plants. In one of the slides an illuminated Hawaiian swimming pool was shown where the source of light was a 400-watt bulb below the surface of the water at one end of the pool.

Various types of fixtures were displayed. It was pointed out that they were waterproof; weather-resistant; constructed of aluminum, with openings on the bottom that allow for ventilation, drainage and cleaning; have the light source shielded to eliminate glare, and that no tools are needed for their everyday use.

For four 150-watt lamps and six 60-watt lamps, enough for most homes, that are kept burning for two hours every night, the year's bill should come to about \$20. In most installations it is best to bury the wires underground, but in places where traffic is not a problem the insulated wires may be run across the ground. Units may be plugged into standard house outlets. The "add-a-unit" cord arrangement permits plugging one unit into another to form a continuous series of units and thereby eliminate long lengths of hazardous, unsightly wiring. With moderately priced fixtures, heavily insulated wires and waterproof bulbs, it is now practical to light up outdoor landscape around the modern home.

#### Landscape Design

In order to get a vivid picture of Prof. Robert S. Reich's ideas on contemporary landscape architecture, one must hear this man talk. Here it is not attempted to give a full

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account of his stimulating lecture, but to cover a few of the highlights in the following paragraphs. A newly published bulletin on contemporary landscaping, written by Pro-fessor Reich, may be acquired by writing to Louisiana State University, Baton Rouge, La.

Professor Reich teaches at Louisiana State University and is president of the Louisiana Association of Landscape Architects and Land-

scape Gardeners.

Contemporary landscaping is not a fad, not an attempt to throw out long accepted ideas just to be new. not an effort to keep up with the times, but rather is built upon the past. The contemporary landscaper thoroughly understands what has been done previously, but he does not necessarily follow along the same lines.

The contemporary approach should not give fixed results. Every client is a guinea pig. No two people are in the same situation and, as his ideas change, the individual's

situation changes.

The measure of success in scientific research is definite, while that in art depends on the psychological effect on the people. The job of the landscape architect is to give people the greatest amount of satisfaction.

The most important considerations of contemporary landscape art are (1) people, (2) materials, (3)

site and (4) space.

1. To landscape is to do something for and to people. The correct approach involves teaching, as people must be shown what good landscape design can be. After education, the person may not want many of the things he originally desired, but will have new ideas. We must, therefore, think of landscape design as something that continually grows.

2. The most important materials in contemporary landscape architecture are plants. If everything depended on plants, however, many immediately desired effects could not be created. Modern landscape design involves the use of more nonliving structures, such as fences and walks, than does conventional design. While this does not necessarily cut down on the number of plants used, these structures give interesting contrasts and immediate results. Another point concerning materials is that one cannot get unified effects in a garden if many varieties of plants are used.

3. Every site is different. All existing things on the site must be considered in relation to the landscape development. Natural features of the area, terrain and existing trees, MAN

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should be used wherever possible in the landscape plan. Nature is the greatest source of landscaping inspiration. Ground, molded by nature, has a beauty not easy for the sculptor to create.

4. All landscape work is done in space, and everything we do affects space. On paper a job may look fine, but in actual practice it may not be good at all. The picture we are looking at from only one direction is in contrast with the actual life landscape which must be admired from all positions. Everything may look well when viewed from a given direction, but not when one is out in space, when all angles of vision are considered. In the garden a person looks all around, not along one definite axis

Slides were shown which gave a glimpse of contemporary landscaped areas. Both property plans and actual landscape scenes were shown.

Dr. Reich concluded with this statement: "Landscaping should fit the practical needs of men along with his spiritual requirements."

#### Better Plants

The final session, in the evening, consisted of a talk given by Dr. John Creech, horticulturist at the United States plant introduction gardens, Glenn Dale, Md.



Many new plant species, varieties and clones were covered by Dr. Creech in his illustrated lecture on "Better Plants for Landscape Design."

Several of the main points to look for in new plants are greater flowering range, better foliage types and flowers that bloom later in the spring.

Most of the broad-leaved evergreens are limited in range and the extent to which they can be grown. The native habitat of most of these are coastal areas. In the case of broad-leaved evergreens, therefore, many are not hardy in inland areas.

Ilex cornuta is dense, unlike I. opaca, and will not exceed 10 feet in height. It will grow in either sun or shade. There are many clones on this plant, some of which have spiny leaves and others which are completely entire. The dwarf form, I.



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cornuta Macopenny, is entirely ster-

Ilex crenata buxifolia is a good ornamental form of the species which is used a great deal in tubs on patios. It is one of the leading plants in Japan. A dense plant, it will reach a height of 10 feet. I. crenata microphylla is the hardiest form of the species, having very small leaves. I. pedunculosa is very hardy and has entire leaves.

Rhododendron reticulatum is a deciduous plant which flowers about the same time as forsythia. R. schlippenbachi is the most widely known and used species. In Korea it may get up to 50 feet. Some of the other azaleas mentioned were Rhododendron alabamense, R. atlanticum, R. canadense, R. mucronatum and R. vaseyi. An interesting point is that before 1936 in Washington, D. C., few azaleas were grown. Many of these plants now grow in this area.

Pistacia chinensis, the Chinese pistache, is grown by the Chinese as a street tree. It has a beautiful red and orange autumn color. In Florida this species does well as a shade tree.

Interesting plants used for hedges are Euonymus alatus compacta, Berberis julianae, B. mentorensis and Ligustrum quihoui. Juniperus chinensis columnaris makes a good. tall, 20-foot hedge, if allowed to grow.

### ELECT AT VANCOUVER

Harley Mays, Vancouver, Wash., was re-elected to his third term as president of the Southwest Washington Nurserymen's Association at its midwinter meeting, January 7, at the Mays home. Mrs. Ruth James, Battle Ground, was elected secretary-treasurer. The association includes nurserymen of Clark and Cowlitz counties.

### NEW ARBORIST OFFICERS

New officers of the California Arborists Association were installed at the group's annual banquet, January 28, at Rickey's, Palo Alto, Calif. The officers are: President, John Davis; vice-president, Irwin Johnson, and secretary-treasurer, Philip Parsons.

Max Leonard, San Mateo county commissioner of agriculture, was the master of ceremonies, as for the past few years. The association meets regularly on the second Wednesday of the month at his office, at Redwood City. A good attendance is hoped for at the next meeting.



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#### OHIO SHORT COURSE FOR ARBORISTS

[Continued from page 10]

cide is applied with a boom and at pressure of 30 to 40 pounds per square inch. On the harder-to-kill weeds, however, it is important that the entire leaf surface be covered with the herbicide. This is accomplished best by applying the herbicide as a fine mist with a hand gun, using a pressure of 100 pounds per square inch. When this is done, the concentration of the spray solution is reduced by one third so that the same amount will be applied as with the boom. The cost of application when using a hand gun will average about three times more than when a boom is used.

#### Esters of 2.4-D Preferred

While ester forms of 2,4-D are more hazardous to use because of vapor drift, Mr. Easterday recommended their preferential use because of their greater effectiveness. For controlling the difficult-to-kill weeds, he combines one quart of the low volatile ester form of 2,4-D with 25 gallons of water and applies it with a hand gun.

When applying a nonselective herbicide, the results wanted by the client must determine the type of herbicide to use. CMU herbicide is ideal for keeping a firebreak free of vegetation. For maintaining a fence row free of weeds, a 2,4-D-2,4,5-T brush killer is satisfactory. Excellent grass suppression can be had by using a mixture of 2,4-D and TCA. This control measure has been found less costly yet just as effective as where CMU has been used. In all cases, Mr. Easterday reported that it is more costly to apply a nonselective herbicide than a selective one, although in each case the small hydraulic sprayer is most suitable for the arborist.

#### Chemical Brush Control Popular

Mr. Jacobs opened his address with a brief description of the 3-day chemical brush control course that was conducted last May for the foremen of his company. From the commercial viewpoint, the speaker was optimistic that the field of chemical brush control is large and "in spite of its growing pains, it has an attractive future." "It is popular," he stated, "because there just isn't enough hand labor to do the work of maintaining clean right of -ways needed by public utilities, pipelines and many others." Where, at one time these right-of-ways were maintained manually and mechanically,

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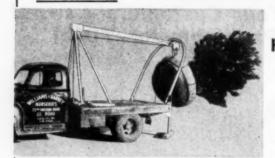
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they are now maintained chemically and much more effectively, too.

Oil-borne sprays and water-borne sprays were two methods cited by Mr. Jacobs by which brush may be controlled chemically. The oil-borne sprays are applied any time of the year to the basal parts of the woody Water-borne sprays are usually applied during the growing season of the plant, preferably from the time the leaves are fully grown to the time of the first frost or foliage coloration in the fall. This constitutes a rather short period of the year; however, it continues to be the most popular method of brush control. This possibly is unfortunate for the arborist, since such a peak work season for chemical brush control coincides with that peak season for tree work.

Mr. Jacobs related that experience had taught the personnel of his company that a herbicide sprayer can never be safely used for insecticide spraying. In an experiment it was found that an application of one part of 2,4-D in 60,000,000 parts of water caused distortion of the leaves of some plant species. As a precautionary measure, his company has placed purple paint strips on sprayers, hose, guns and other equipment to distinguish them from other sprayer equipment. Even rope that is used in herbicidal work is kept separate from the rope that is used in regular tree work.

Practices by some contractors of chemical brush control work have resulted in undesirable public relations, and at times even the utility companies have been soured on the real value of chemical brush control. Mr. Jacobs listed some of these poor practices as bidding a job so cheaply that the men had to spray too rapidly and carelessly, unsightly roadsides of dead brush, and the improper manner of settling with property owners after real damage has occurred to valuable crops or livestock. "It is good practice," he stated, "to figure in the operating cost some money to settle such claims."

Wear on the equipment is about twice as great where it is used on right-of-way work as where used only in tree care work. This, too, must be considered in the operating cost, but he concluded, "Come on in, the water may not be fine and warm, but at least it's there."

#### Chemical Compatibilities Analyzed

Dr. Ralph B. Neiswander, department of entomology, Ohio agricultural experiment station, Wooster, in his talk on "Compatibilities and Stability of Insecticides and Fungi-

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cides," discussed the compatibilities of the newer pesticides with the older ones and advised about the safety and value of using spray solutions that had been mixed the previous day. Dr. Neiswander observed that the entire principles of pest control have been altered by the introduction of so many synthetic chemicals since World War II that by now there is almost a specific control measure for each pest. Today there are over 2500 trademarks for names of insecticides, but these include duplications of the same insecticide, such as DDT, which is listed under at least 150 different trademark names.

While not compatible with sulphur, oil sprays may still be the most effective for controlling scale in-sects," stated Dr. Neiswander. Tolerance of the plants to oils is dependent upon the amount of refinement the oil has had. Dormant oils are not so highly refined as are the summer oils, and since they are not compatible with sulphur one of the dithio carbamates, such as ferbam, should be used when a fungicide is to be applied also.

The dinitro compounds, DN 289 and Elgetol 318, which are specific for eggs of aphis and mites, should always be used alone and only when



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the plants are dormant. Lead arsenate is still considered a valuable insecticide for controlling chewing insects, since it is harmless to the parasitic insects. Burning of the foliage may result unless hydrated lime is mixed with the spray solution, although this addition does reduce the effectiveness of the insecticide.

Dr. Neiswander reported that DDT. BHC and chlordane were the most common of the chlorinated hydrocarbons, and thousands of



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HALF MOON MFG. & TRADING CO., INC. 90 West St. NEW YORK 6, N. Y. Telephone: Barclay 7-8357 other synthetic organic insecticides have been developed from these. None of them are compatible with hydrated lime except the derivatives of chlordane; namely: aldrin, dieldrin and endrin, which are quite stable even in the alkaline materials such as hydrated lime.

Research work in Germany before World War II led to the development of the deadly organic phosphate insecticides, including HETP, TEPP and parathion. These materials deteriorate rapidly in water and so should be used immediately upon mixing. They are compatible with both sulphur and the dithio carbamate fungicides.

#### Malathion Popular Insecticide

According to a publication by the United States food and drug administration, malathion, an organic phosphate closely related to parathion, is less poisonous to man than either DDT or lead arsenate. Its use as a horticultural insecticide is gaining in popularity since many insects are susceptible to it. Residual toxicity is of short duration, comparable to parathion. It does not appear to be compatible with ferbam in the dust form.

Nicotine sulphate breaks down quickly when added to water and so should be used immediately upon mixing. Ovotran, aramite and dimite are specific acaracides and have little effectiveness in controlling insects. Neither ovotran nor aramite are compatible with hydrated lime and aramite is not compatible with the organic mercurials or fixed copper fungicides. Dimite is expensive, but is compatible with everything. Likewise, captan is not compatible with oils or alkaline materials.

Detergents should be used in the place of soaps as a spreader, since the latter materials are alkaline in nature.

Dr. Neiswander handed out a compatibility chart, on which was indicated the compatibilities of many of the pesticides.

At the conclusion of the address, Dr. Neiswander answered questions that were asked from the group. To control box elder bugs, four pounds of 50 per cent chlordane wettable powder in 100 gallons of water should be sprayed on the outside areas where they congregate. Inside the house, they can be controlled by spraying with a household bomb at three times the normal concentration.

Scale insects may be controlled with a combination of one pound each of the actual ingredients of DDT and malathion in 100 gallons les

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of water. Spray at a time when the scale insects are hatching. Since magnolia scale hatches during a period of several weeks, this insect is controlled most satisfactorily when sprayed early in the spring with parathion.

Dr. Neiswander reported that there still is no definite control for thrips in rose blooms because of the nature of these insects to migrate to the roses from nearby plants.

#### Wetwood Disease Described

The afternoon program was opened with the introduction of Dr. J. C. Carter, head of the section of applied botany and plant pathology, state natural history survey division, Urbana, Ill., who addressed the group on wetwood tree disease.

Dr. Carter stated that this disease is not at all a new one and, while commonly associated with elms, it is also prevalent in poplar, willow and oak trees. Symptoms of the disease appear as water-logged areas in the heartwood and older portions of the sapwood. This is caused by sap accumulating mostly in the spring growth tissue of the wood, composed of the larger xylem cells. In this sap accumulation live certain bacteria that are the causal agent, or pathogens, of the wetwood disease. It is still not understood just why such abnormal sap accumulations should occur within a tree.

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in the sap, fermentation occurs and gases are liberated which combine with the sap to create a pressure of 10 to 15 pounds inside the tree where normally the pressure would be no more than one pound. These un-usually high pressures also occur throughout the year with the maximum pressure appearing in late August. By late January and February the pressure has subsided to that of a normal tree, and it is at this time that trees having wetwood disease should be pruned, according to Dr. Carter.

Chemical analysis has shown that these gases are composed of 46 per cent methane, 34 per cent nitrogen, 14 per cent carbon dioxide, 5 per cent oxygen and 1 per cent hydrogen. In no way have these gases been found toxic to any part of the

Damages to the trees that have wetwood disease may be manifested either internally as a direct result of the toxic action of the sap or externally as a result of the bleeding or fluxing of the sap through open wounds, frost cracks or crotch cracks in the tree. Whenever fluxing occurs, it may be attacked by other types of fermenting bacteria on the outside of the tree. This results in a slim fluxing condition and, while it presents an unsightly appearance and prevents normal callusing at wound areas, it has nothing to do with wetwood disease.

Where an accumulation of sap, which contains excessive amounts of potassium and possibly other compounds, is carried up through the branches, the internal manifestation of the disease is wilting and eventual vellowing and falling of the leaves or sometimes leaf scorching. Brown discoloration, appearing as streaks in the current year's growth of the tree branches, is common to wetwood, dothiorella and Dutch elm diseases and so it is not an accurate diagnostic symptom.

Dr. Carter gave some precise recommendations for treating wetwood disease. He stated that pruning out diseased branches containing the





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wilted leaves does nothing to elim-inate the disease. Since wilting of the leaves is seldom fatal to the branches, pruning should be delayed and immediate steps taken to stop the fluxing by installing drainage tubes at the base of the tree trunk. A hole should be drilled into the trunk so that it will transverse the area of sap accumulation. Into this hole is driven the drainage tube to a depth of not more than three inches. Such a wetwood area can be determined by securing saplings of the cross section of the wood with an increment borer. The wetwood section of a bore will disintegrate into many pieces. Pressure is localized only in the infected area, and so an increment borer equipped with a pressure gauge would also be useful for diagnostic work.

He advised that fluxing at a frost crack may occur without the presence of wetwood disease, and in this case such fluxing might continue even after installation of a drainage tube. Where an increment borer is used, such a condition can be determined before a drainage tube is needlessly installed.

When a tree has wetwood disease, Dr. Carter stated that it is advisable to fertilize the tree at the time of installing the drainage tube. He expressed the opinion that there is no way of actually eliminating the disease after it has become established in a tree. After the fluxing is stopped by the installation of drainage tubes, however, little harm appears to be done to the tree by the continued presence of the pathogen.

There are certain precautionary measures that should be exercised to prevent the spread of wetwood disease. All tools should be disinfected after being used in a diseased tree. No unpainted wound should be left, since it is through these that the pathogen might enter. Likewise small limbs that die out from being shaded should be removed regularly and these wounds painted thoroughly.

Dr. Carter emphasized that slim fluxing on the bark of trees frequently results from a condition associated with the fermentation of the sap in the cambium. This condition can be eliminated by simply scraping away the diseased portions of the cambium.

#### Chelated Iron

"The Use of Chelated Iron in Chlorosis Control" was discussed by a panel led by Dr. L. C. Chadwick. Panelists were Dr. J. R. Kuykendall, Geigy Agricultural Chemicals Re-

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search Laboratory, Bayonne, N. J.; H. N. Engledow, Midwestern Tree Experts, Indianapolis, Ind.; T. W. Parke, Parke-Speed Tree Service, Columbus, O., and E. A. Sanford, William A. Natorp Co., Cincinnati

Dr. Kuykendall began the discussion by defining chlorosis as a condition of plants characterized by a deficiency of chlorophyll in the foliage and caused by nutritional deficiency within the plant. When iron is the deficient nutrient, interveinal vellowing develops in the leaves. while the midrib and veins remain green. This deficiency may be caused by a lack of iron in the soil, but most frequently it is believed to be due to conditions in the soil, such as a high pH or excessive amounts of calcium or magnesium, which prevent the iron from entering the plant by rendering it insoluble.

"Chelating agents," stated Dr. Kuykendall, "are organic compounds that surround an element and hold it in a water-soluble form so that it can be absorbed by the roots of the plant." This is not an uncommon phenomenon in nature, as chlorophyll is known to act as a chelate on magnesium and citric acid is a chelating agent for iron. However these are readily decomposed by soil microorganisms, and so in commercial practice, an amino acid type of chelate is used which will withstand

such decomposition.

It has also been observed that chelated iron will produce other beneficial effects besides aiding in the restoration of chlorophyll to the leaves. On normally green citrus trees and grapevines, the addition of chelated iron to the soil has resulted in increased yield, and this yield has been pushed even higher when a nitrogenous fertilizer is applied along with the iron chelate. Turf has also responded favorably to applications of iron chelate.

Dr. Kuykendall reported that chelated iron may be applied to the soil in dry form and watered in or else it may be applied along with a dry fertilizer. Treatments of iron chelate have been successful in restoring the chlorophyll content in leaves of gardenias, rhododendrons, azaleas, honeysuckles, spiraeas and many other ornamental plants.

Mr. Engledow reported on the practical experience that he has had in treating pin oaks with chelated iron. The material was broadcast over the soil beneath the trees in March and April at the rate of onefourth pound for each inch of tree trunk diameter. The trees leafed out

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much greener than in previous years and continued to green up all through the growing season. Ted Parke stated that he had

mixed one pound of the iron chelate with 10 gallons of water and sprayed the solution onto the soil at the rate of two and one-half pounds to each 8-inch tree. Fertilization with a 10-6-4 fertilizer was necessary before

any response was seen.

Mr. Parke also described some adverse effects that he had had with the chelated iron, but he explained that he had used it in a manner different from that recommended. It was mixed at the rate of one pound to 25 gallons of water and sprayed on dormant trees. The trees failed to leaf out until midsummer, when leaves developed from secondary

Mr. Sanford first used chelated iron in 1952. At that time he mixed one pound of iron chelate with 100 pounds of fertilizer and placed this mixture in soil holes about pin oaks and azaleas during May through August. When the job of filling the holes was finished, the soil was watered thoroughly. Within three weeks good green foliage had developed. Mr. Sanford stated that he has had equally good results when two pounds of chelated iron was mixed with 100 gallons of water and sprayed on the foliage of azaleas, rhododendrons and other broadleaved evergreens.

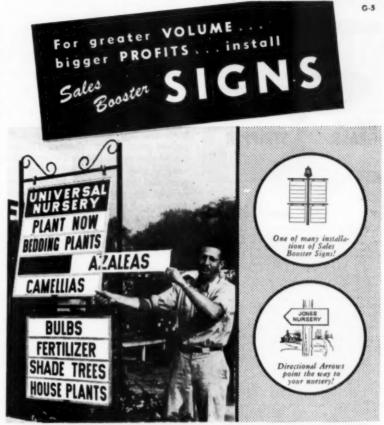
Dr. Kuvkendall cautioned that overdosing, even from soil applications, would result in leaf scorch. Retreatments should be made as soon as chlorosis reappears, although to date pin oaks that were treated two years ago still have good green

foliage.

An arboriculture clinic, moderated by Dr. Paul E. Tilford, executive secretary of the National Arborist Association, Wooster, Ohio, concluded the afternoon program. Dr. Tilford invited Dr. Ralph B. Neiswander, J. Melvin Easterday and Dr. J. C. Carter to act as advisers on the clinic. Those attending the meeting presented many questions that were answered by the various members of the clinic.

#### Dreams

In the evening the group assembled for a pleasant dinner at the Neil House, after which Carl Fenner, city forester, Lansing, Mich., and president of the National Shade Tree Conference, philosophically presented an illustrated talk relating practices and investigations in which he has engaged in attempting to answer many of his "dreams."



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Mr. Fenner suggested that care of street trees is a three-party responsibility; of the city, property owner and utility company. He showed color slides to confirm his dream that bark can be encouraged to grow back where the tree trunk has been peeled of its old bark. To accomplish this, he places a shade screen of burlap around the tree trunk within eight inches of the wound, leaving both the top and bottom open to permit good air circulation. He has found that verticillium wilt of maples may be controlled by dehorning the tree, and this, of course, has been the answer to another dream. Some measure of success has been had in preventing the flowers of certain tree species from setting fruit. Mr. Fenner prefers to leave the feathered growth of small branches on the tree trunks. This he feels, enhances the tree's beauty and protects the trunk in some minor way from the direct rays of the hot summer sun.

In his work with chlorotic trees, Mr. Fenner is satisfied that, when treated with the new iron chelates, the normal green color can be restored to the foliage of these trees. Girdling roots have been a difficult problem, but now Mr. Fenner believes he has realized the answer to another dream. By cutting away strips of bark at the top surface of the girdling root and also at the tree trunk just above where the girdling root has grown, he has observed that callus growth develops which eventually amalgamates the root into the tree.

WILLIAM J. SMART, of D. Hill Nursery Co., Dundee, Ill., went to the Sherman hospital, at Elgin, February 2, for two or three weeks for observation.

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A free 4-page folder on stimulating ornamental nursery stock sales is announced by the L. W. Ramsey Co., Davenport, Ia., publishers of the monthly "Landscape Letter."

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